

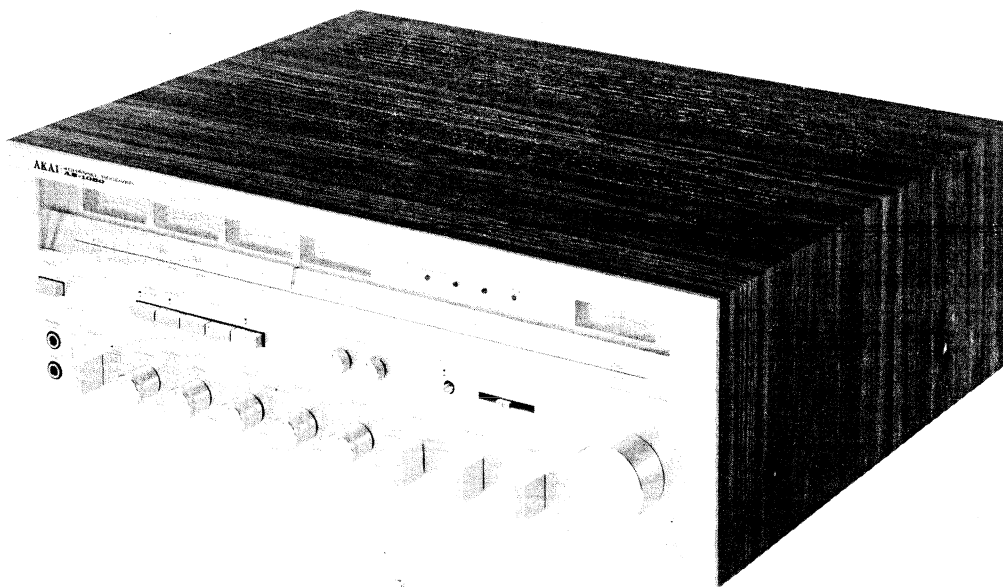
SERVICE MANUAL

PARTS LIST

MODEL AS-1080



ALSO APPLICABLE TO MODEL AS-1080DB AND AS-1070



STEREO RECEIVER

MODEL **AS-1080**

ALSO APPLICABLE TO MODEL AS-1080DB AND AS-1070

| | | |
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SECTION 1

SERVICE MANUAL

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL OPERATING PRINCIPLES AND ADJUSTMENTS.

I. TECHNICAL DATA

MODEL AS-1080 and AS-1080DB

1. AMPLIFIER SECTION

| | | |
|-----------------------------|------------|---|
| CONTINUOUS POWER OUTPUT | | |
| 4 CHANNELS DRIVEN | | 40 watts per channel, min. RMS, at 8 ohms from 20 to 20,000 Hz, with no more than 0.2% total harmonic distortion. |
| 2 CHANNELS DRIVEN | | 80 watts per channel, min. RMS, at 8 ohms from 20 to 20,000 Hz with no more than 0.2% total harmonic distortion. |
| TOTAL HARMONIC DISTORTION | (1 kHz) | Less than 0.2% |
| POWER BANDWIDTH (IHF) | | 10 to 60,000 Hz/8 ohms (Distortion within 0.2%) |
| INPUT SENSITIVITY | PHONO | 3 mV/47 k ohms (CD-4 1.5 mV/47 k ohms) |
| | AUX | 160 mV/47 k ohms |
| | TAPE 1 & 2 | 160 mV/47 k ohms |
| SIGNAL TO NOISE RATIO (IHF) | PHONO | Better than 80 dB |
| | AUX | Better than 90 dB |
| CHANNEL SEPARATION (IHF) | PHONO | Better than 50 dB (at 1,000 Hz) |
| EQUALIZER | | RIAA ± 1 dB (Phono) |
| TONE CONTROL | BASS | ± 10 dB at 100 Hz |
| | TREBLE | ± 10 dB at 10 kHz |
| LOUDNESS CONTROL | | +9 dB at 100 Hz, +4 dB at 10 kHz (Volume Control at -30 dB position) |
| FILTER | HIGH | -6 dB at 10 kHz |
| | LOW | -10 dB at 50 Hz |
| DOLBY SYSTEM | | Dolby "B" Processor (AS-1080DB only) |
| DOLBY TONE | | 400 Hz/Rec Out, Pin 150 mV (AS-1080DB only) |

2. FM TUNER SECTION

| | | |
|-------------------------|----------|---------------------------------------|
| FREQUENCY RANGE | | 88 to 108 MHz |
| SENSITIVITY (IHF) | | 1.9 μ V |
| CAPTURE RATIO (IHF) | | 1.0 dB |
| SELECTIVITY (IHF) | | Better than 70 dB at 98 MHz |
| SIGNAL TO NOISE RATIO | | Better than 70 dB |
| IMAGE REJECTION | | Better than 75 dB at 98 MHz |
| IF REJECTION | | Better than 90 dB at 98 MHz |
| SPURIOUS REJECTION | | Better than 80 dB at 98 MHz |
| HARMONIC DISTORTION | MONAURAL | Less than 0.2% |
| | STEREO | Less than 0.4% |
| FM STEREO SEPARATION | | Better than 40 dB (1,000 Hz) |
| FM MUTING | | Variable (3 to 300 μ V/ON-OFF) |
| ANTENNA INPUT IMPEDANCE | | 300 ohms balanced, 75 ohms unbalanced |

3. AM TUNER SECTION

| | | |
|-----------------------|--|--|
| FREQUENCY RANGE | | 535 to 1,605 kHz |
| SENSITIVITY (IHF) | | 200 μ V/m (Bar Antenna), 5 μ V (EXT Antenna) |
| IMAGE REJECTION | | Better than 55 dB at 1,000 kHz |
| IF REJECTION | | Better than 45 dB at 1,000 kHz |
| SELECTIVITY (IHF) | | Better than 30 dB at 1,000 kHz |
| AM DISTORTION | | Less than 0.6% |
| SIGNAL TO NOISE RATIO | | Better than 50 dB |

4. OTHER

| | | | | |
|-------------------|------------------------------|--|--------------------------------|---------|
| TRANSISTOR | 2SA640 (E) (F) | 6 (6) | 2SA640-1 (E) (F) (G) (H) . . . | 8 (8) |
| | 2SA733 (P) (Q) (R) | 4 (4) | 2SC458LG (B) (C) | 4 (4) |
| | 2SC930 (E) (F) | 2 (2) | 2SC945L (K) (P) (Q) (R) . . . | 27 (29) |
| | 2SC1000 (GR) (BL) | 6 (6) | 2SC1222 (E) (F) | 10 (10) |
| | 2SC1384 (P) (Q) | 1 (1) | 2SC1520-3 (K) (L) | 4 (4) |
| | 2SC1628 (O) (Y) | 8 (8) | 2SD313 (E) (F) | 2 (2) |
| | 2SB548 (P) (Q) | 1 (1) | | |
| | | | | |
| DIODE | 1S188 | 0 (4) | 1S188AM | 4 (8) |
| | 1S2472 | 9 (9) | 1S2473 | 2 (2) |
| | 1S2473F | 7 (7) | 1S2473VE | 10 (10) |
| | 10D1 | 4 (4) | 10D2 | 3 (3) |
| | SS188 | 1 (1) | WZ120 | 1 (2) |
| | WZ130 | 2 (2) | WZ162 | 3 (3) |
| | IT243M47 | 3 (3) | SEL105RC | 4 (4) |
| | SEL305GC | 0 (1) | VD1221 | 4 (4) |
| IC | CX-049 | 1 (1) | CX-050 | 1 (1) |
| | CX-718 | 1 (1) | CD4-394 | 2 (2) |
| | TA7129P | 2 (2) | LA1230 | 1 (1) |
| | LA3550 | 1 (1) | μPC30C | 1 (1) |
| | NE545B | 0 (4) | S-60W | 4 (4) |
| | | | | |
| POWER REQUIREMENT | | CSA, UL and LA Models: 120V, 60 Hz only CEE Models: 220V, 50 Hz only Other Models: 110/220/240V (Switchable) | | |
| DIMENSIONS | | 520 (W) × 182 (H) × 409 (D) mm 20.5 (W) × 7.2 (H) × 16.1 (D) inches | | |
| WEIGHT | | 19.0 kg (41.8 lbs) Model AS-1080 19.3 kg (42.5 lbs) Model AS-1080DB | | |

- NOTES: 1. The numbers shown in parentheses (Transistor, Diode and IC) are applicable to Model AS-1080DB.
2. For improvement purposes, specifications and design are subject to change without notice.
3. Noise reduction circuit made under license from Dolby Laboratories Inc.
The word 'DOLBY' and the Double-D symbol are trademarks of Dolby Laboratories Inc.

MODEL AS-1070

1. AMPLIFIER SECTION

| | | |
|-----------------------------|------------|---|
| CONTINUOUS POWER OUTPUT | | |
| 4 CHANNELS DRIVEN | | 25 watts per channel, min. RMS, at 8 ohms from 20 to 20,000 Hz, with no more than 0.3% total harmonic distortion. |
| 2 CHANNELS DRIVEN | | 50 watts per channel, min. RMS, at 8 ohms from 20 to 20,000 Hz, with no more than 0.3% total harmonic distortion. |
| POWER BANDWIDTH (IHF) | | 10 to 60,000 Hz/8 ohms (Distortion within 0.3%) |
| INPUT SENSITIVITY | PHONO | 3 mV/47 k ohms (CD-4 1.5 mV/47 k ohms) |
| | AUX | 160 mV/47 k ohms |
| | TAPE 1 & 2 | 160 mV/47 k ohms |
| SIGNAL TO NOISE RATIO (IHF) | PHONO | Better than 80 dB |
| | AUX | Better than 90 dB |
| CHANNEL SEPARATION (IHF) | PHONO | Better than 50 dB (at 1,000 Hz) |
| EQUALIZER | | RIAA ± 1 dB (Phono) |
| TONE CONTROL | BASS | ± 10 dB at 100 Hz |
| | TREBLE | ± 10 dB at 10 kHz |
| LOUDNESS CONTROL | | +9 dB at 100 Hz, +4 dB at 10 kHz (Volume Control at -30 dB position) |
| FILTER | HIGH | -6 dB at 10 kHz |
| | LOW | -10 dB at 50 Hz |

2. FM TUNER SECTION

| | | |
|-------------------------|----------|---------------------------------------|
| FREQUENCY RANGE | | 88 to 108 MHz |
| SENSITIVITY (IHF) | | 1.9 μ V |
| CAPTURE RATIO (IHF) | | 1.0 dB |
| SELECTIVITY (IHF) | | Better than 70 dB at 98 MHz |
| SIGNAL TO NOISE RATIO | | Better than 70 dB |
| IMAGE REJECTION | | Better than 65 dB at 98 MHz |
| IF REJECTION | | Better than 80 dB at 98 MHz |
| SPURIOUS REJECTION | | Better than 70 dB at 98 MHz |
| HARMONIC DISTORTION | MONAURAL | Less than 0.2% |
| | STEREO | Less than 0.4% |
| FM STEREO SEPARATION | | Better than 40 dB (1,000 Hz) |
| FM MUTING | | Variable (3 to 300 μ V/ON-OFF) |
| ANTENNA INPUT IMPEDANCE | | 300 ohms balanced, 75 ohms unbalanced |

3. AM TUNER SECTION

| | | |
|-----------------------|--|---|
| FREQUENCY RANGE | | 535 to 1,605 kHz |
| SENSITIVITY (IHF) | | 200 μ V/m (Bar Antenna) 5 μ V (EXT Antenna) |
| IMAGE REJECTION | | Better than 55 dB at 1,000 kHz |
| IF REJECTION | | Better than 45 dB at 1,000 kHz |
| SELECTIVITY (IHF) | | Better than 30 dB at 1,000 kHz |
| AM DISTORTION | | Less than 0.6% |
| SIGNAL TO NOISE RATIO | | Better than 50 dB |

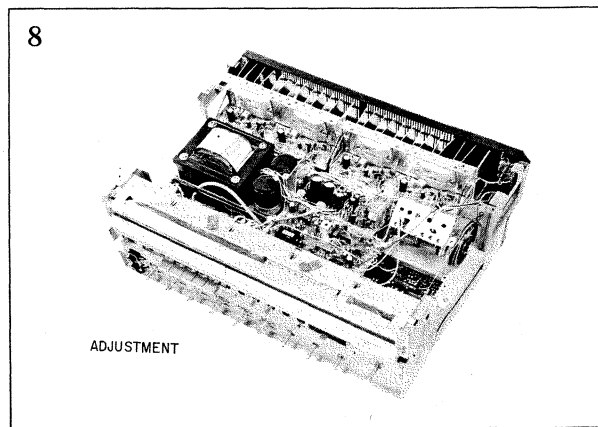
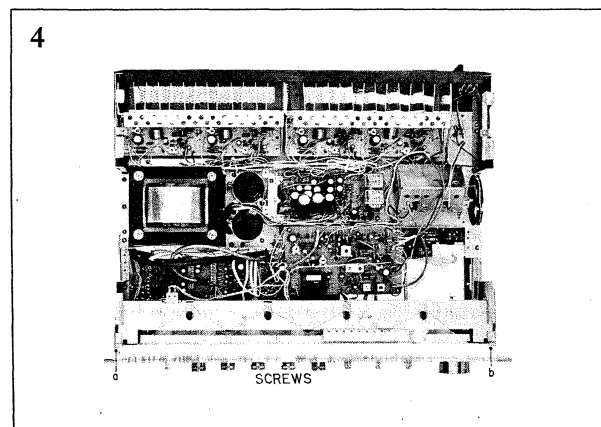
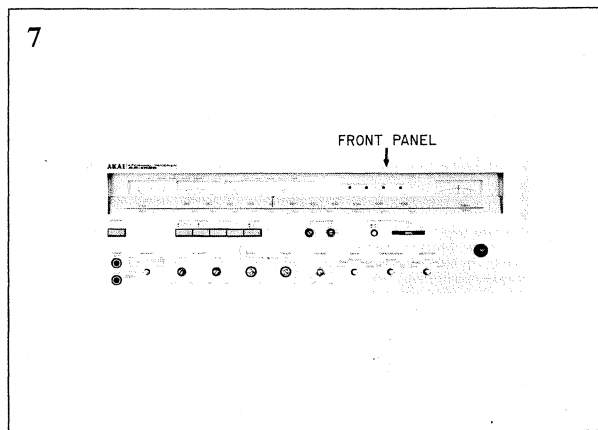
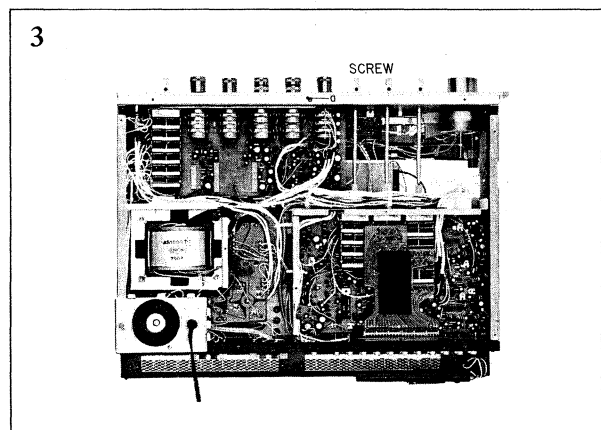
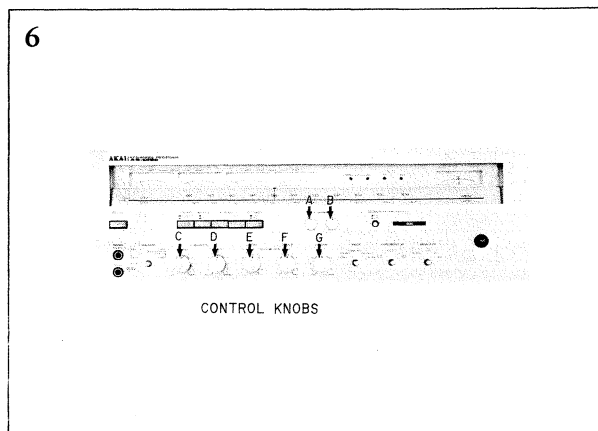
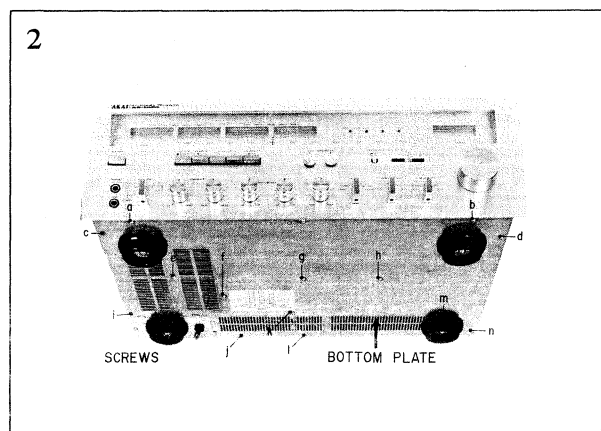
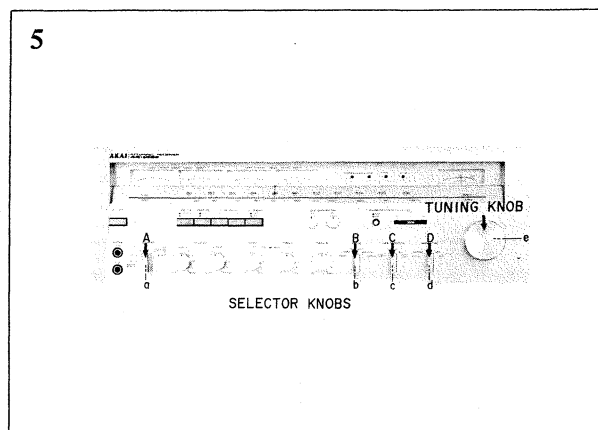
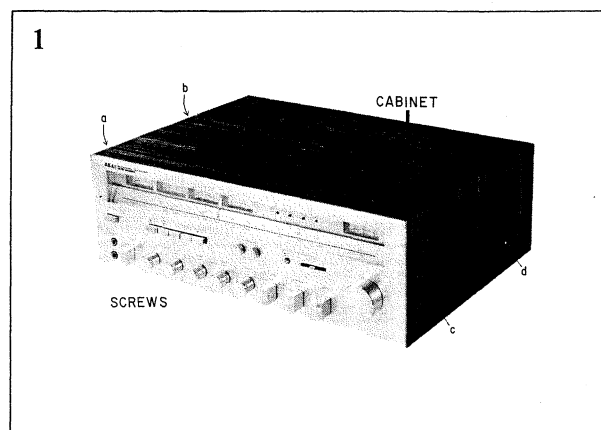
4. OTHER

| | | | | |
|-------------------|------------------------------|---|---------------------------------|----|
| TRANSISTOR | 2SA640 (E) (F) | 6 | 2SA640-1 (E) (F) (G) (H) . . . | 8 |
| | 2SA733 (P) (Q) (R) | 4 | 2SC458LG (B) (C) | 4 |
| | 2SC930 (E) (F) | 2 | 2SC945L (K) (P) (Q) (R) | 23 |
| | 2SC1000 (GR) (BL) | 6 | 2SC1222 (E) (F) | 10 |
| | 2SC1384 (P) (Q) | 1 | 2SC1520-3 (K) (L) | 4 |
| | 2SC1628 (P) (Y) | 4 | 2SD313 (E) (F) | 2 |
| | 2SB548 (P) (Q) | 1 | | |
| | | | | |
| DIODE | 1S188AM | 2 | 1S2472 | 9 |
| | 1S2473 | 2 | 1S2473VE | 10 |
| | 10D1 | 4 | 10D2 | 3 |
| | HIFI SPECIAL 400V 3A | 4 | | |
| | WZ120 | 1 | WZ130 | 2 |
| | WZ162 | 3 | IT243M47 | 3 |
| | SEL105RC | 3 | VD1221 | 4 |
| | | | | |
| IC | CX-049 | 1 | CX-050 | 1 |
| | CX-718 | 1 | CD4-392 | 2 |
| | TA7129P | 2 | LA1230 | 1 |
| | LA3350 | 1 | μPC30C | 1 |
| | S-40W | 4 | | |
| | | | | |
| POWER REQUIREMENT | | CSA, UL and LA Models: 120V, 60 Hz only CEE Models: 220V 50 Hz only Other Models: 110/220/240V (Switchable) | | |
| DIMENSIONS | | 520 (W) × 182 (H) × 409 (D) mm 20.5 (W) × 7.2 (H) × 16.1 (D) inches | | |
| WEIGHT | | 17.6 kg (38.7 lbs) | | |

NOTE: For improvement purposes, specifications and design are subject to change without notice.

II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.



III. ARRANGEMENT OF PRINCIPAL PARTS

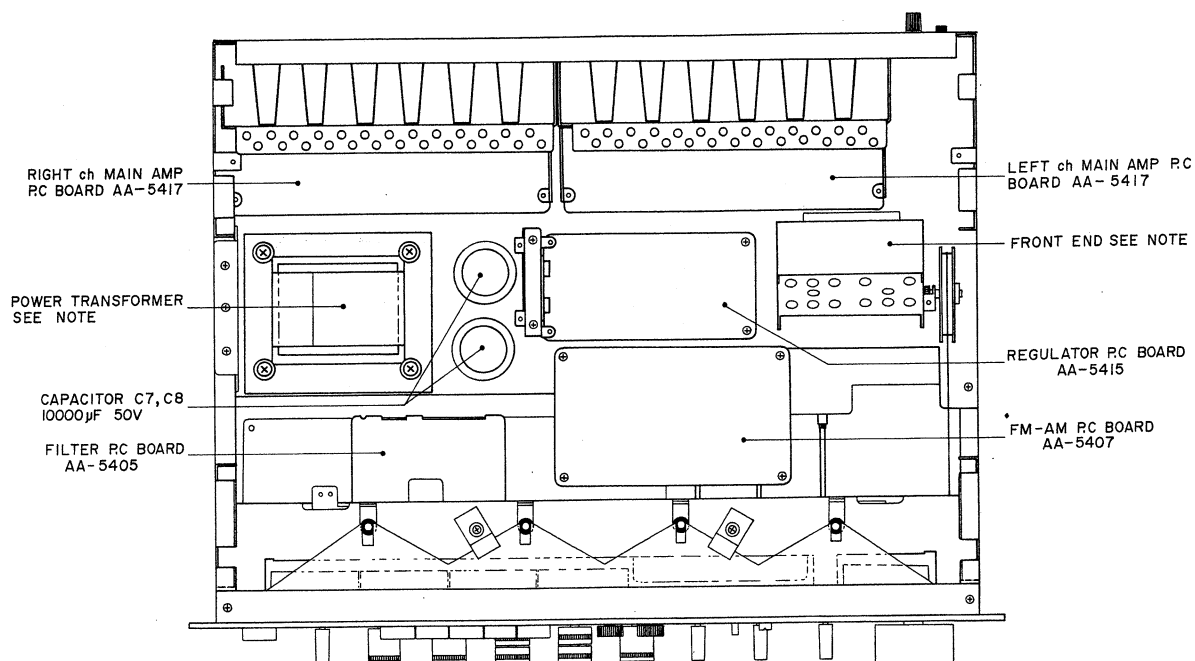


Fig. 1 Top View

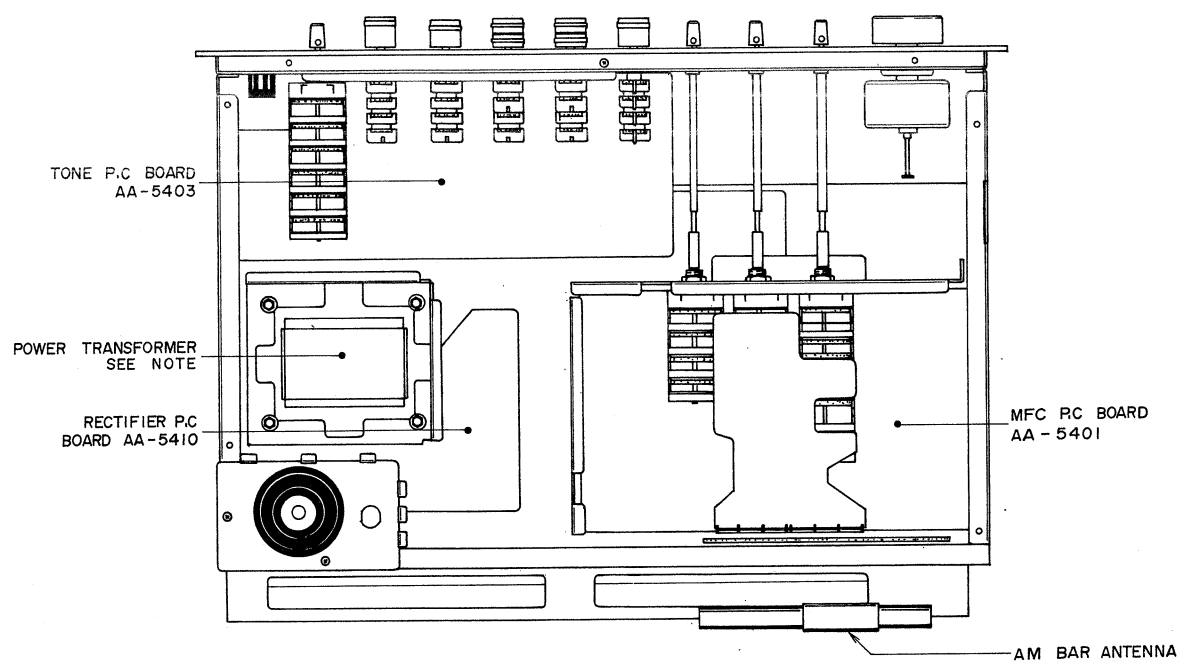


Fig. 2 Bottom View

NOTE

| Model | Power Trans | Front End |
|-----------|-------------|-----------|
| AS-1080 | AA-1080T-5 | FL329U |
| AS-1080DB | AA-1080T-5 | FL329U |
| AS-1070 | AA-1070T-5 | FB112U21 |

IV. FM TUNER SECTION ADJUSTMENTS

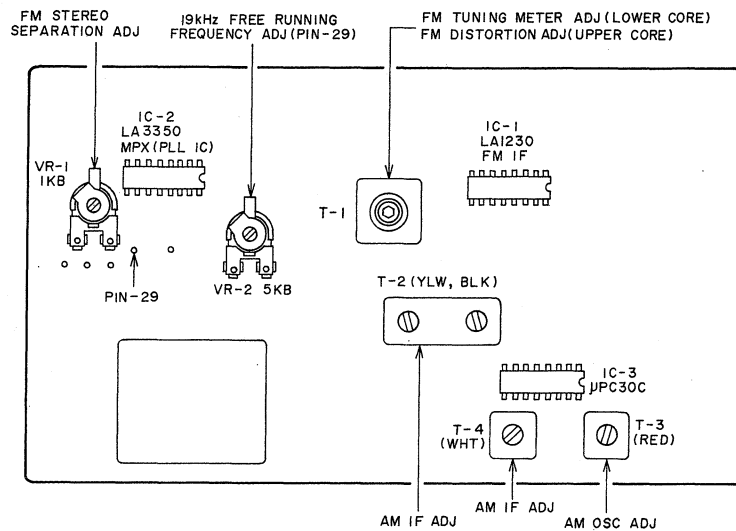


Fig. 3 IF P.C Board AA-5407

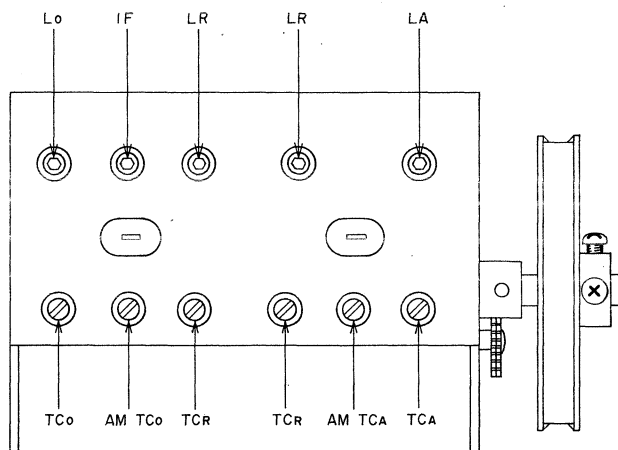


Fig. 4 Front End AS-1080/DB

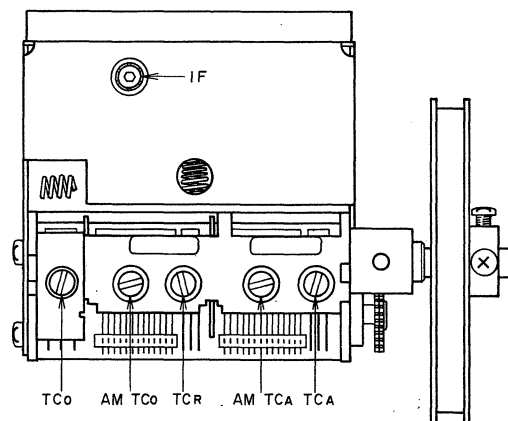


Fig. 5 Front End AS-1070

1. Model AS-1080 and AS-1080DB

| Step | Adjustment Item | Adjustment Point | Result | Remarks |
|------|--|---|-----------------------------------|---|
| 1 | Front End IF coil adjustment | IF coil (Front End) | Maximum noise level | Selector to "FM" Tune only noise without interference of broadcasting. |
| 2 | Tuning Meter Centering | T-1 Lower side core (IF P.C Board) | Center indication of Tuning Meter | Same as above |
| 3 | Distortion factor adjustment | T-1 Upper side core (IF P.C Board) | Less than 0.5% distortion factor | 108 MHz, 60 dB (mono) input. Less than 0.5% on both channels. |
| 4 | Confirmation of Tuning Meter indication | | | If Tuning Meter indication is not at center position, re-adjust STEPS 2 and 3 above. |
| 5 | Frequency Coverage adjustment | TCO (high range) Lo (low range) (Front End) | error: within ± 250 kHz | 108 MHz, 60 dB (mono) input. |
| 6 | Sensitivity adjustment | TCR, TCA (high range) LR, LA (low range) (Front End) | Less than 3% distortion factor | 108 MHz, Less than 10 dB (mono) input. |
| 7 | PLL IC Free Running Frequency adjustment | VR-2 5 kB (IF P.C Board) | 19.00 kHz | Mute Switch to "ON". Frequency Counter to PIN-29 (IF P.C Board). See NOTE-2. |
| 8 | Stereo Indicator Lighting confirmation | | | 98 MHz, 60 dB (stereo) input. Failure of stereo indicator to light means that stereo broadcasts are not being received. |
| 9 | Stereo Separation adjustment | VR-1 1 kB (IF P.C Board) | More than 38 dB | 98 MHz, 60 dB (stereo), L-ch input. Distortion factor must be Less than 0.7% |
| 10 | Stereo Separation adjustment | | More than 38 dB | 98 MHz, 60 dB (stereo), R-ch input. Distortion factor must be less than 0.7% and if it exceeds 0.7%, adjust the coil in STEP 1 within a half turn. |
| 11 | Confirmation of Tuning Meter indication | | Tuning Meter: Center | |

Chart-1

NOTE-1: In the event that the distortion factors in STEP 6 is not less than 3%, re-adjust Front End Trimmers TCR, TCA, LR, LA to obtain an optimum distortion factor on the average of three points 88, 98 and 109 MHz.

NOTE-2: Free running frequency of the PLL IC must be an exact 19.00 kHz.

2. Model AS-1070

| Step | Adjustment Item | Adjustment Point | Result | Remarks |
|------|--|--|---|--|
| 1 | Front End IF coil adjustment | IF coil (Front End) | Maximum noise level | Selector to "FM". Tune only noise without interference of broadcasting. |
| 2 | Tuning Meter Centering | T-1 Lower side core (IF P.C Board) | Center indication of Tuning Meter | Same as above |
| 3 | Distortion factor adjustment | T-1 Upper side core (IF P.C Board) | Less than 0.5% distortion factor | 108 MHz, 60 dB (mono) input. Less than 0.5% on both channels. |
| 4 | Confirmation of Tuning Meter Indication | | | If Tuning Meter indication is not at center position, re-adjust in STEPS 2 and 3 above. |
| 5 | Frequency Coverage adjustment | TCO (high range) (Front End) | error: within ± 250 kHz | 108 MHz, 60 dB (mono) input. |
| 6 | Sensitivity adjustment | TCR, TCA (high range) (Front End) | Less than 3% distortion factor | 108 MHz, Less than 10 dB (mono) input. |
| 7 | PLL IC Free Running Frequency adjustment | VR-2 5 kB (IF P.C Board) | 19.00 kHz | Mute Switch to "ON". Frequency Counter to PIN-29 (IF P.C Board). See NOTE-2. |
| 8 | Stereo Indicator Lighting confirmation | | | 98 MHz, 60 dB (stereo) input. Failure of stereo indicator to light means that stereo broadcasts are not being received. |
| 9 | Stereo Separation adjustment | VR-1 1 kB (IF P.C Board) | More than 38 dB | 98 MHz, 60 dB (stereo), R-ch input. Distortion factor must be less than 0.7%. |
| 10 | Stereo Separation adjustment | | More than 38 dB | 98 MHz, 60 dB (stereo), R-ch input. Distortion factor must be less than 0.7% and if it exceeds 0.7%, adjust the coil in STEP 1 within a half turn. |
| 11 | Confirmation of Tuning Meter indication | | Tuning Meter: Center | |

Chart-2

NOTE-1: In the event that the distortion factors in STEP 6 is not less than 3%, re-adjust Front End Trimmers TCR, TCA to obtain an average minimum distortion factor at 88, 98 and 108 MHz (same value at all three frequencies).

NOTE-2: Free running frequency of the PLL IC must be an exact 19.00 kHz.

V. AM TUNER SECTION ADJUSTMENTS

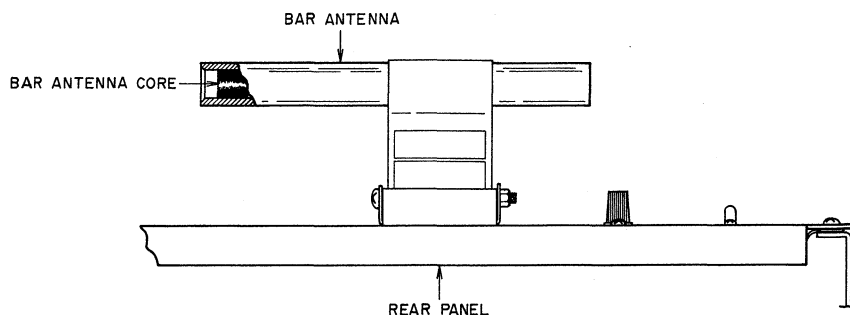


Fig. 6 Bar Antenna

| Step | Adjustment Item | Adjustment Point | Result | Remarks |
|------|--|---|------------------------|---------------------------|
| 1 | Low Range Frequency Coverage adjustment | T-3 (RED) (IF P.C Board) | error: Less than 2% | 520 kHz optional input. |
| 2 | Sensitivity adjustment | Bar Antenna core T-2 (YLW, BLK) T-4 (WHT) (IF P.C Board) | Maximum sensitivity | 520 kHz optional input. |
| 3 | High Range Frequency Coverage adjustment | AM TCo (Front End) | error: Less than 2% | 1,400 kHz optional input. |
| 4 | Sensitivity adjustment | AM TCA (Front End) | Maximum sensitivity | 1,400 kHz optional input. |

Chart-3

NOTE: Repeat procedures in STEPS 1 through 4 two or three times.

VI. CD-4 ADJUSTMENTS

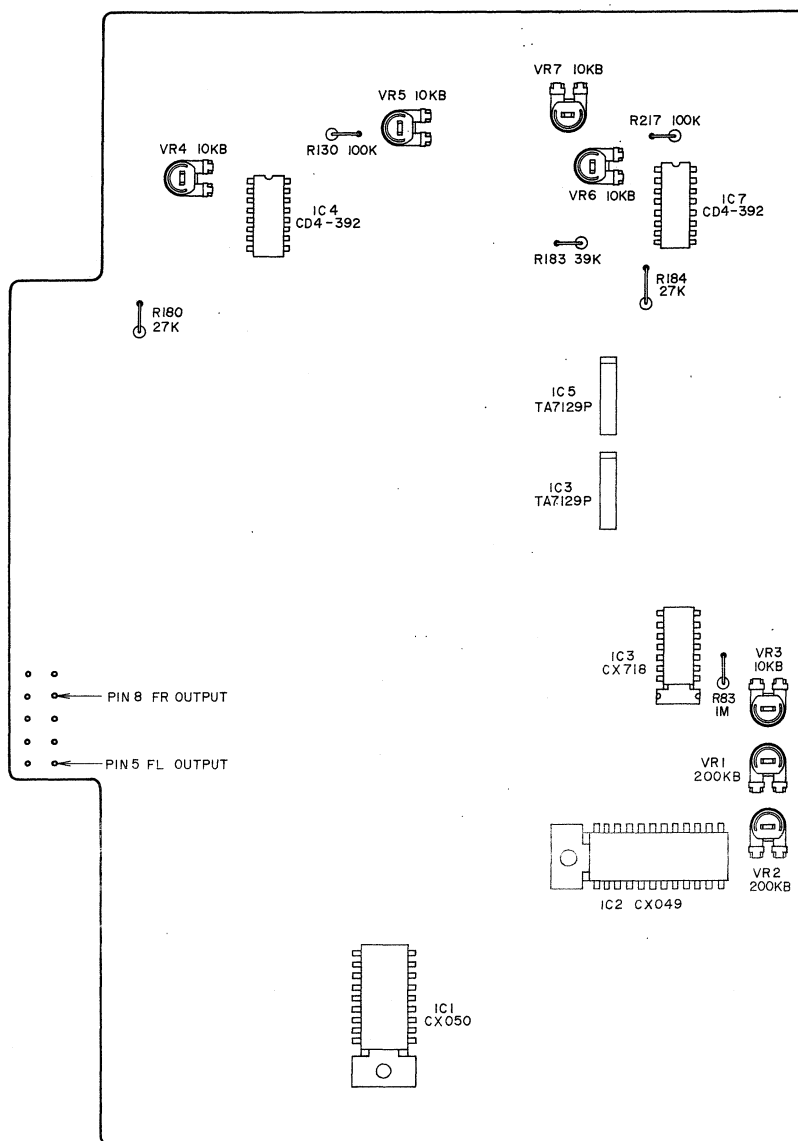


Fig. 7 MFC P.C Board AA-5401

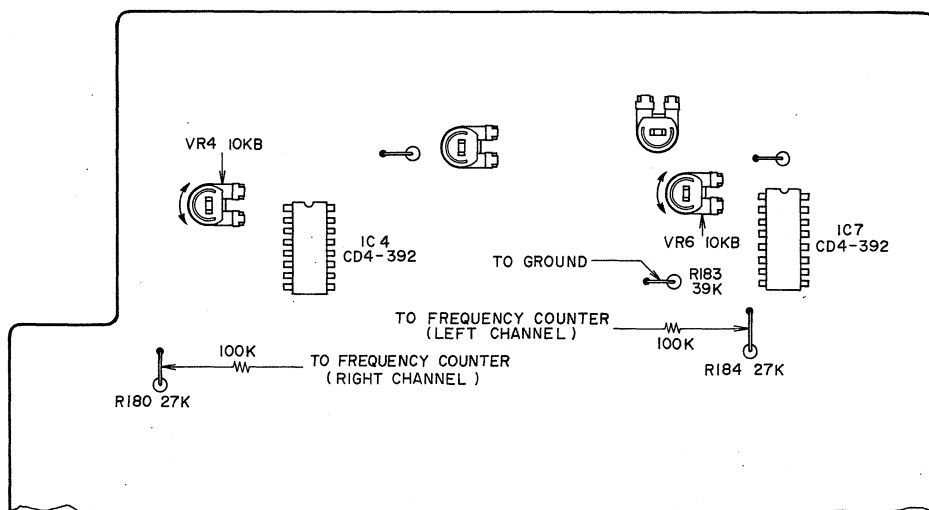


Fig. 8 VCO Adjustment (MFC P.C Board AA-5401)

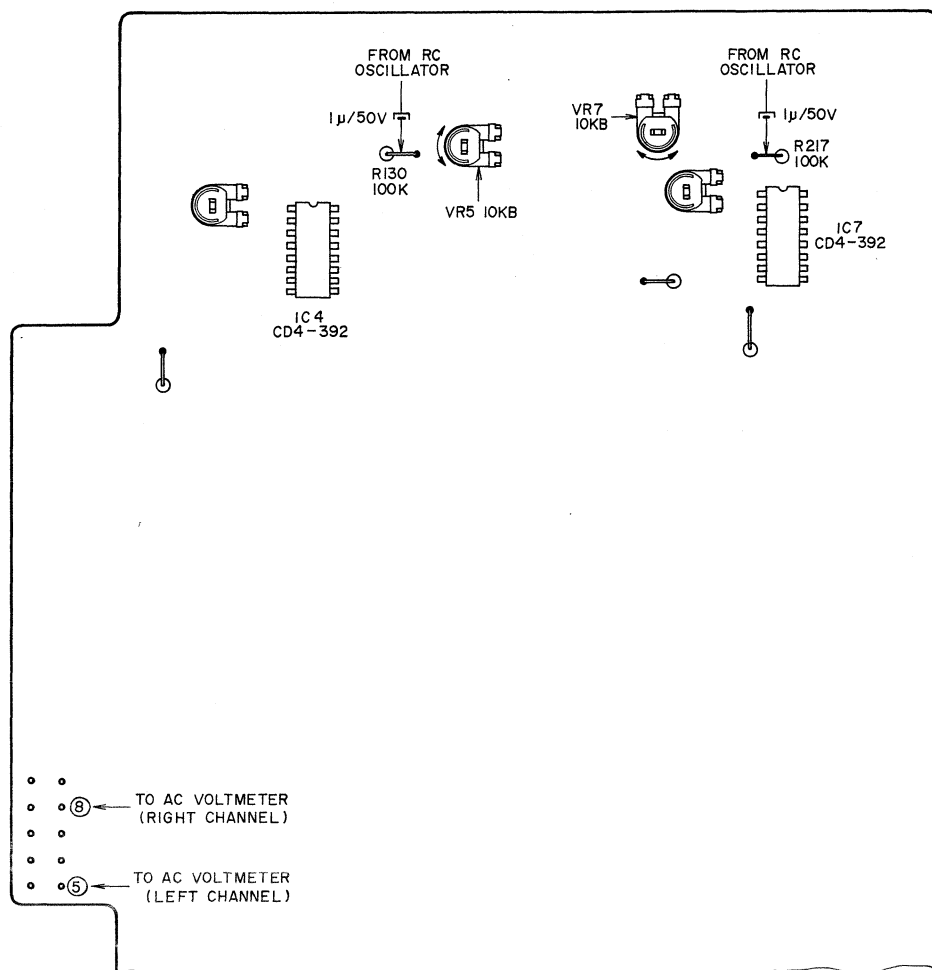


Fig. 9 ANRS Expander Adjustment (MFC P.C Board AA-5401)

1. Before adjustment, set switch positions

as follows:

- 1) MODE switch to "DISC-4CH".
- 2) TAPE MONITOR switch to "SOURCE".
- 3) SELECTOR switch to "CD-4".

2. VCO Adjustments (Refer to Fig. 8)

- 1) Short phono inputs.
- 2) Ground resistor R183 39 k ohms. (Mute off)
- 3) Connect a Frequency Counter to R184 27 k ohms (left channel) and R180 27 k ohms (right channel) through a 100 k ohms resistor.
- 4) Adjust semi-fixed resistors VR 6 10 kB (left channel) and VR4 10 kB (right channel) to obtain a 30 kHz \pm 100 Hz VCO oscillating frequency.

3. ANRS Expander Adjustments (Refer to Fig. 9)

- 1) Short phono inputs.
- 2) Connect an RC Oscillator to resistors R217 100 k ohms (left channel) and R130 100 k ohms (right channel) through a 1 μ /50V capacitor and supply a 1 kHz -30 dBm signal.
- 3) Connect an AC Voltmeter to Pin-5 (left channel) and Pin-8 (right channel).
- 4) Adjust semi-fixed resistors VR7 10 kB (left channel) and VR5 10 kB (right channel) to obtain a -36 dBm indication on the AC Voltmeter.

VII. SQ ADJUSTMENTS

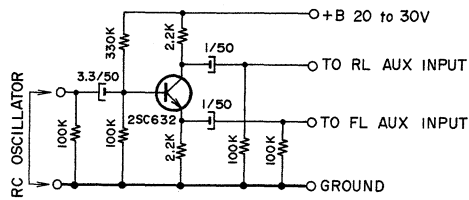


Fig. 10 Phase Inverter

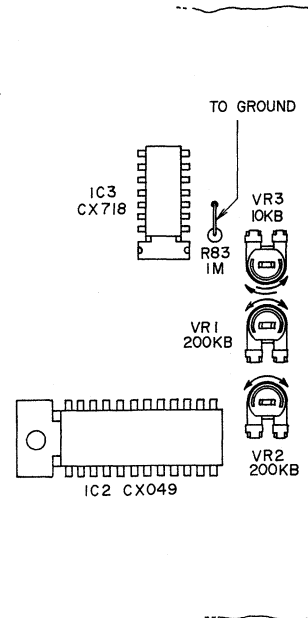


Fig. 11 SQ Adjustment (MFC P.C Board AA-5401)

1. Before adjustment, set switch positions

as follows:

- 1) MODE switch to "SQ LOGIC".
- 2) TAPE MONITOR switch to "SOURCE".
- 3) SELECTOR switch to "AUX".

2. Adjustments (Refer to Fig. 10 and Fig. 11)

- 1) Ground resistor R83 1M ohms (Pin (3) of IC3 CX-718).
- 2) As shown in Fig. 10, supply a 1 kHz -15 dBm signal through a Phase Inverter to AUX FL channel.
- 3) Connect an AC Voltmeter to Tape 2 FL and RL channel Rec terminals.
- 4) Turn semi-fixed resistor VR3 10 kB fully counter-clockwise. Then adjust output by turning VR3 clockwise to the point at which a 3 dB lower output than at fully counter-clockwise position is attained.
- 5) Disconnect resistor R83 1M ohms from ground.
- 6) Adjust semi-fixed resistor VR2 200 kB to obtain a 15 dB decrease in RL channel output as compared to FL channel output.
- 7) Supply output signal from Phase Inverter shown in Fig. 10 to AUX FL and RL channels respectively.
- 8) Adjust semi-fixed resistor VR1 200 kB to obtain a 13.5 dB decrease in FL channel output as compared to RL channel output.

VIII. DOLBY N.R. CIRCUIT ADJUSTMENTS

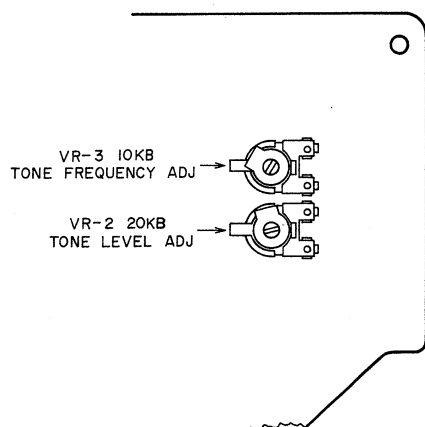


Fig. 12 Dolby N.R. P.C Board AA-5408

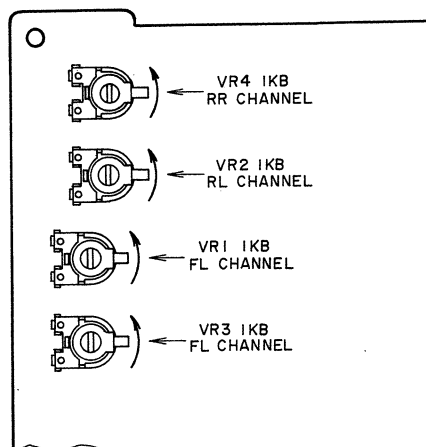


Fig. 13 Filter P.C Board A AA-5404

1. Before adjustment, set switch positions as follows:
 - 1) MODE switch to "CAL TONE".
 - 2) METER switch to "DOLBY LEVEL".

2. Dolby Tone Frequency Adjustment (Refer to Fig. 12)

Connect a Frequency Counter or Oscilloscope to the recording output terminal and adjust semi-fixed resistor VR3 10 k Ω to obtain a 400 Hz oscillation frequency.

3. Dolby Tone Level Adjustment (Refer to Fig. 12)

Adjust semi-fixed resistor VR2 20 k Ω to obtain a 150 mV on recording output terminal.

4. Level Meter Sensitivity Adjustment (Refer to Fig. 13)

Adjust semi-fixed resistors to obtain a "0" VU indication of level meters respectively.

| | | |
|---------------------|-----|--------------|
| FRONT LEFT CHANNEL | VR1 | 1 k Ω |
| FRONT RIGHT CHANNEL | VR3 | 1 k Ω |
| REAR LEFT CHANNEL | VR2 | 1 k Ω |
| REAR RIGHT CHANNEL | VR4 | 1 k Ω |

IX. MAIN AMPLIFIER ADJUSTMENTS

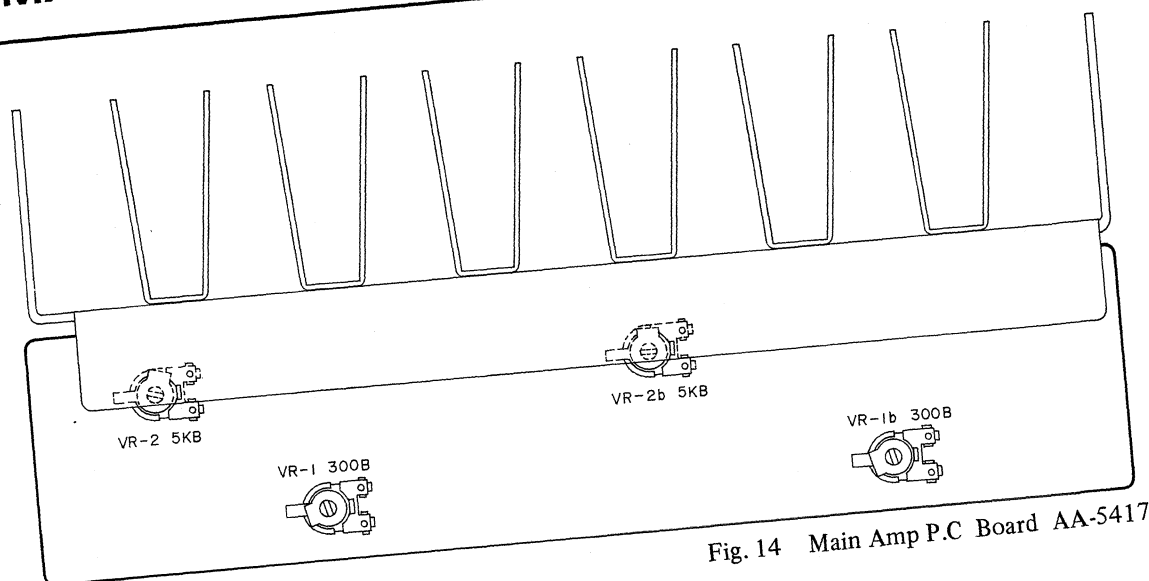


Fig. 14 Main Amp P.C Board AA-5417

1. Idling Current Adjustment

- 1) Disconnect the lead wires of terminals (6), (30) of Main amplifier P.C Board from power supply.
- 2) Connect a 50 to 100 mA scale ammeter between power supply and the Main amplifier P.C Board terminals.
- 3) Adjust Main amplifier P.C Board semi-fixed resistors VR2 5 k Ω (left channel), and VR2b (right channel) to obtain 40 mA on both channels.

2. Zero Electrical Potential Adjustment

- 1) Set voltmeter or tester to 1.5V DC range and connect between terminals (3), (16) of Main amplifier P.C Board and chassis.
- 2) Adjust semi-fixed resistors VR1 300 Ω (left channel), and VR1b 300 Ω (right channel) to obtain a Zero voltmeter indication.

X. TUNING CORD THREADING

Model AS-1080 and AS-1080DB (Also applicable to Model AS-1070) Difference is only Front End

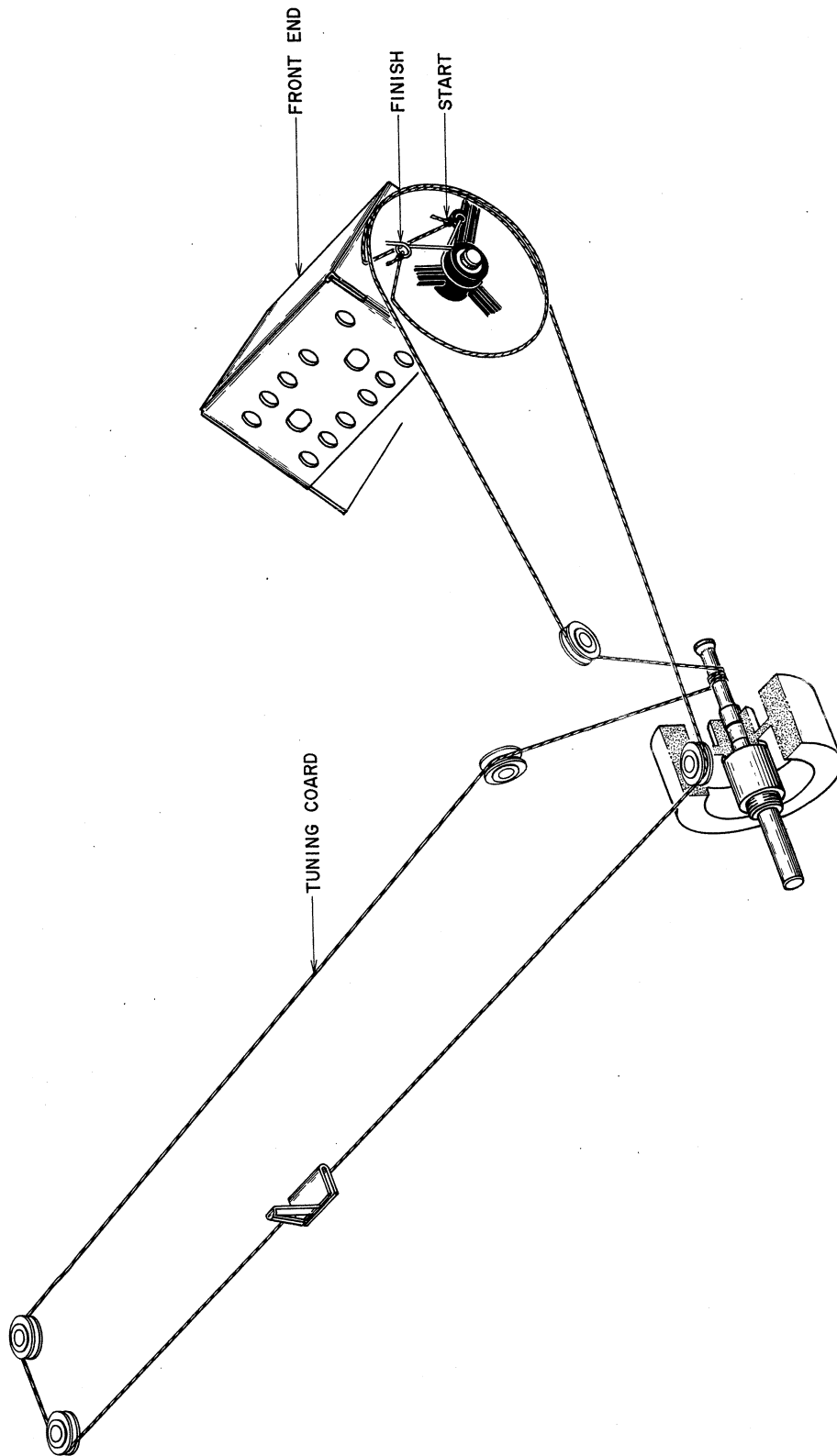


Fig. 15

XI. CLASSIFICATION OF VARIOUS P.C BOARDS

1. P.C BOARD INTERCHANGEABILITY CHART

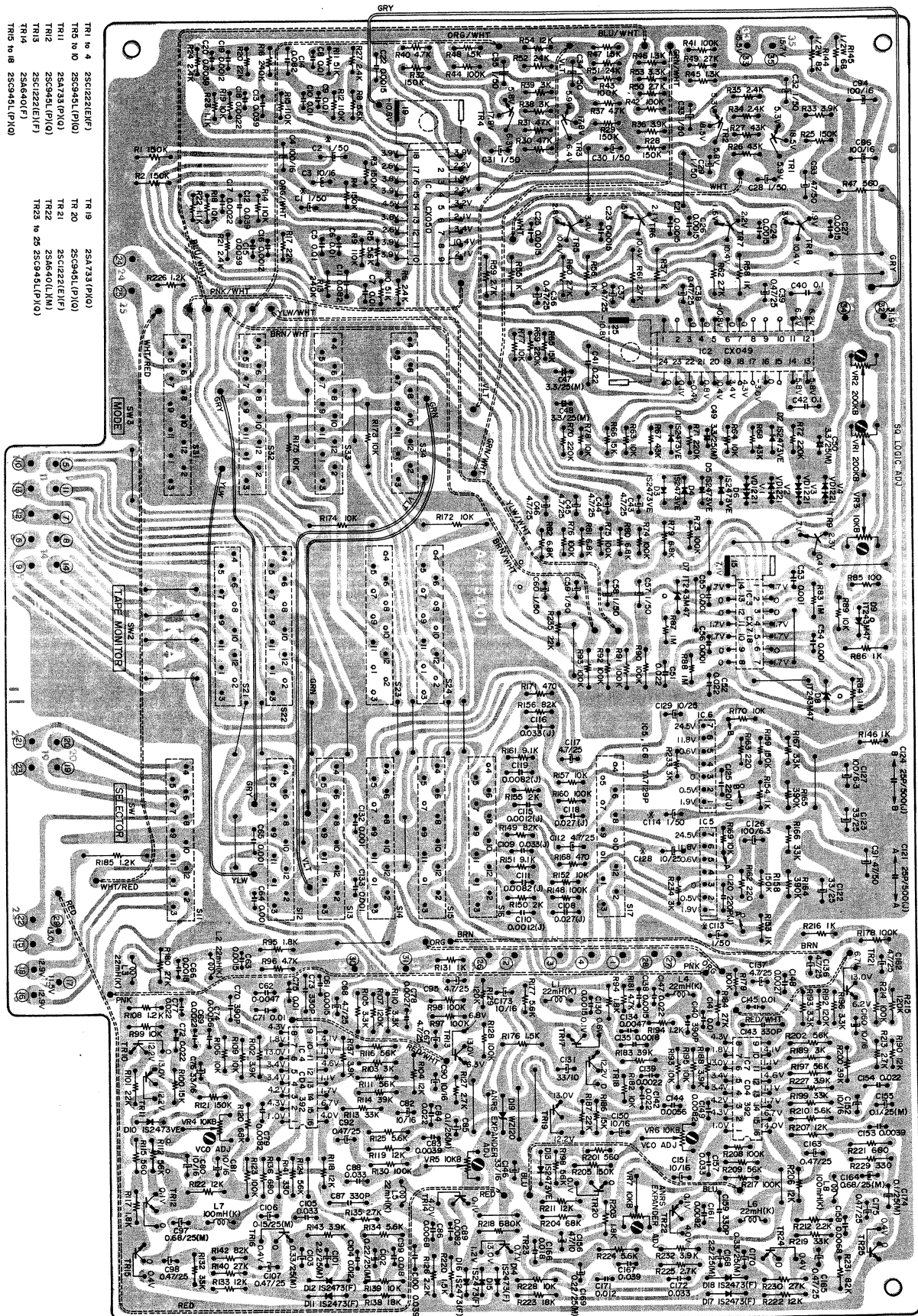
| P.C Board | AS-1080 | AS-1080DB | AS-1070 |
|--------------------------|---------|-----------|----------|
| MFC P.C Board | AA-5401 | AA-5401 | AA-5401 |
| Jack P.C Board | AA-5402 | AA-5402 | AA-5402 |
| Tone Control P.C Board | AA-5403 | AA-5403 | AA-5403 |
| Dolby N.R. P.C Board | | AA-5408 | |
| Filter P.C Board B | AA-5405 | | |
| Filter P.C Board A | | AA-5404 | |
| Filter P.C Board C | | | AA-5406 |
| Main Amplifier P.C Board | AA-5417 | AA-5417 | *AA-5417 |
| IF P.C Board | AA-5407 | *AA-5407 | *AA-5407 |
| Regulator P.C Board | AA-5415 | AA-5415 | AA-5415 |
| Rectifier P.C Board | AA-5410 | AA-5410 | AA-5410 |
| LED P.C Board | AA-5413 | *AA-5413 | *AA-5413 |
| Mute P.C Board | AA-5507 | AA-5412 | AA-5507 |

Chart-4

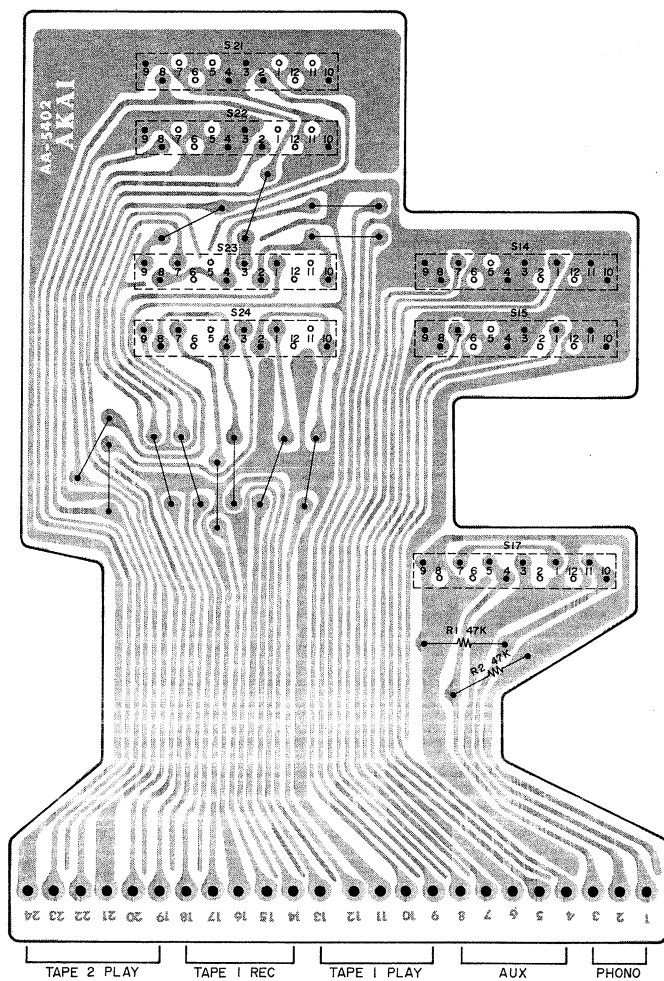
* Mark indicates non-interchangeability

2. COMPOSITION OF VARIOUS P.C BOARDS

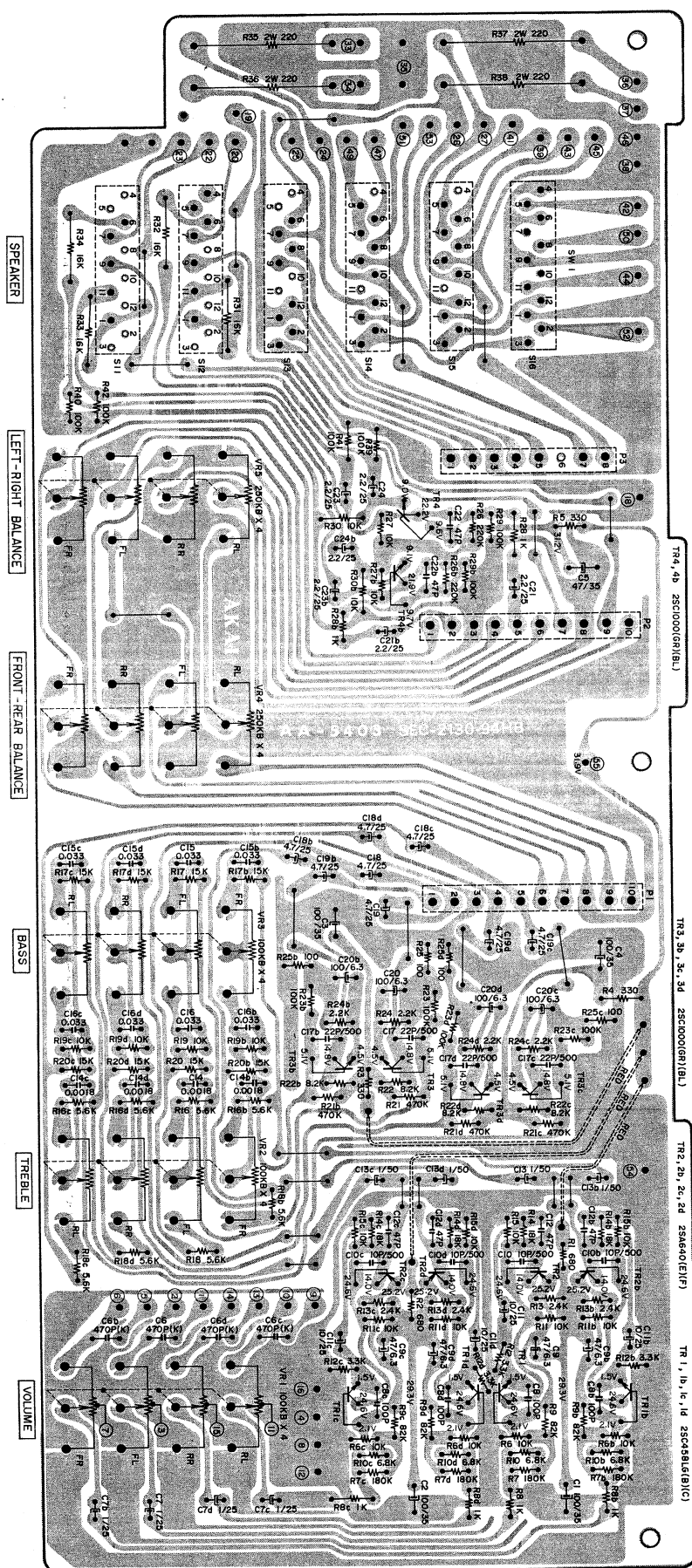
1) MFC P.C BOARD AA-5401



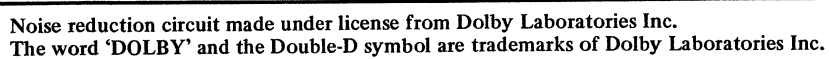
JACK P.C BOARD AA-5402



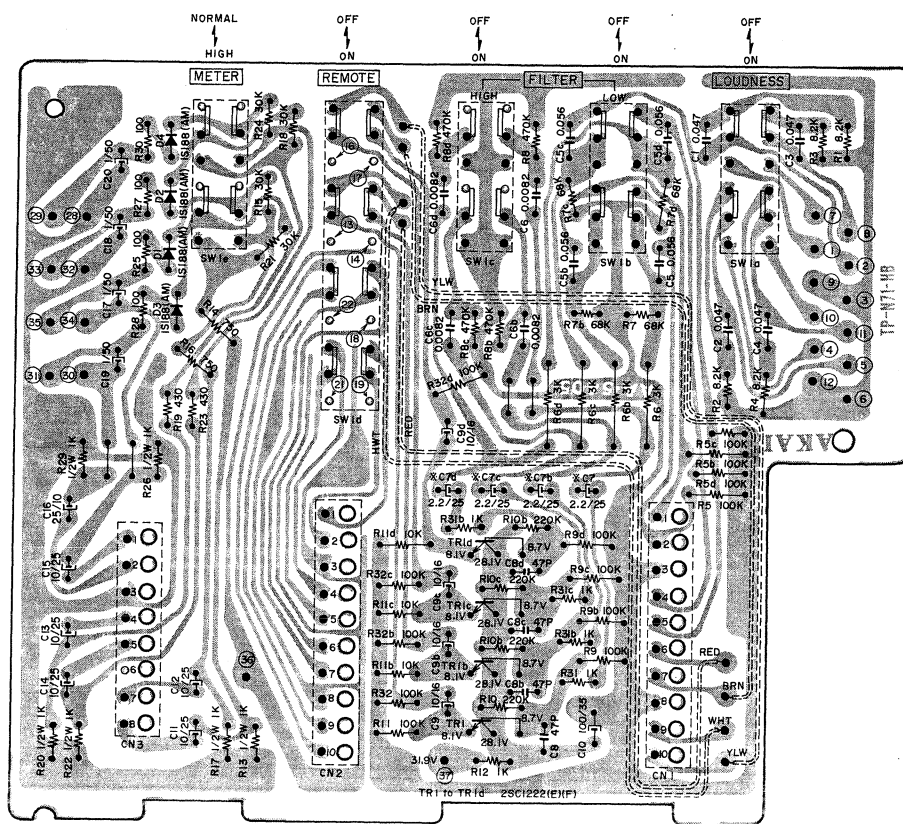
2) TONE CONTROL P.C BOARD AA-5403



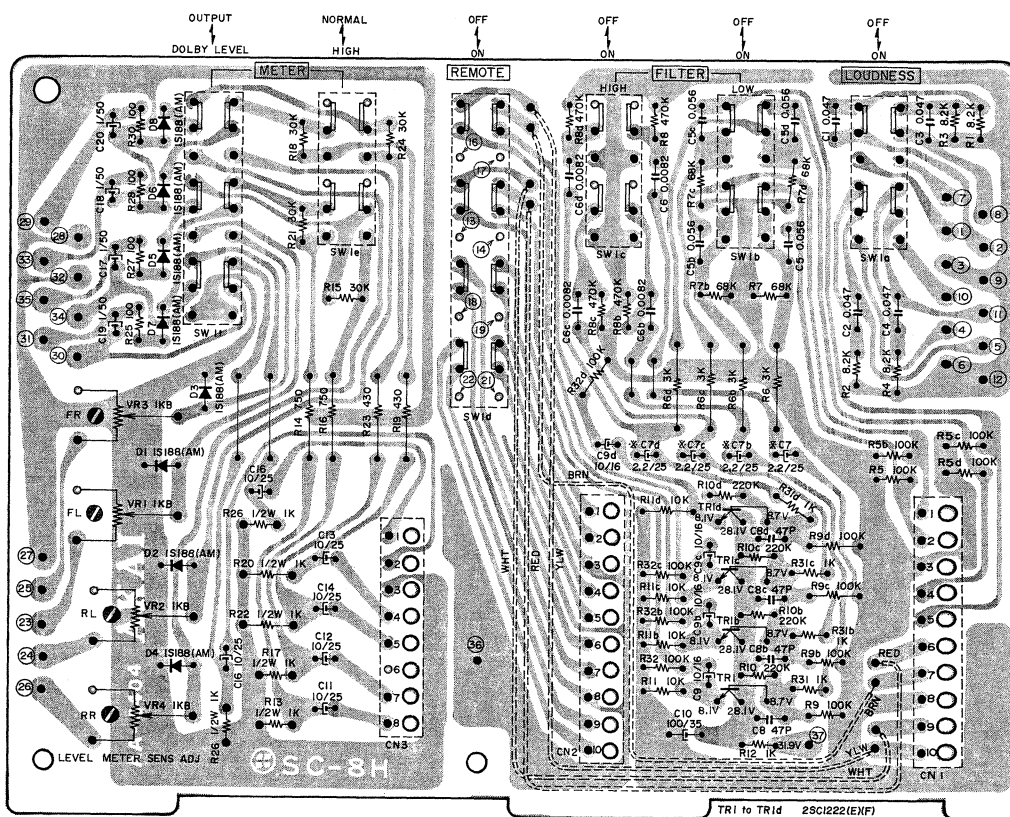
22



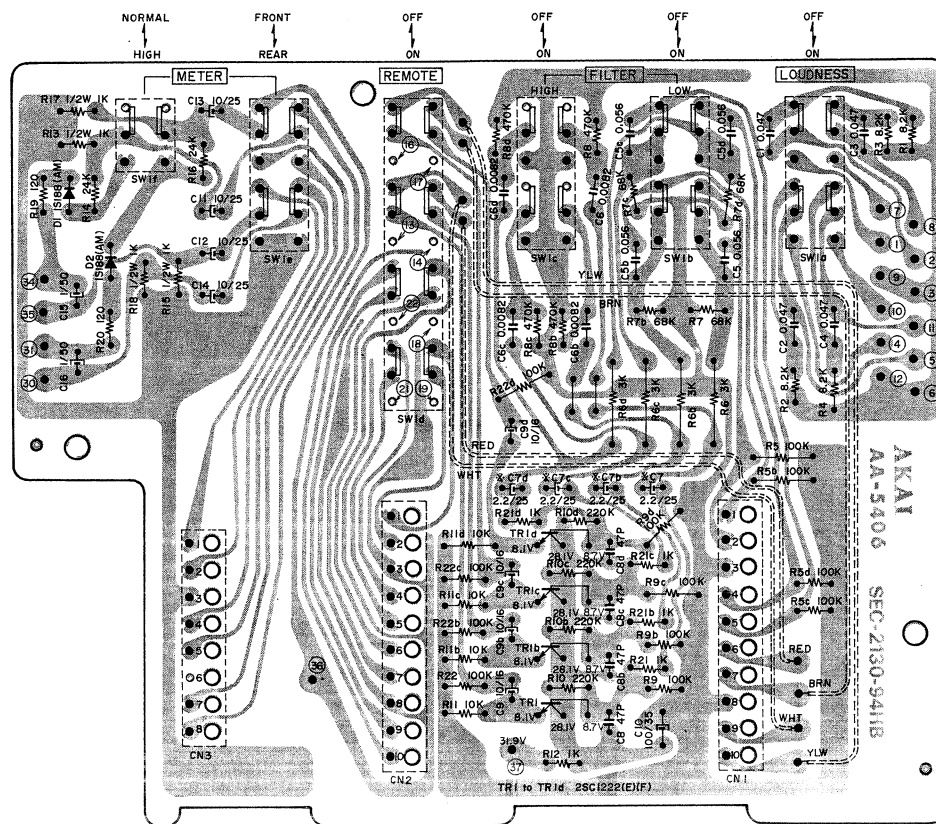
4) FILTER P.C BOARD B AA-5405 (AS-1080)



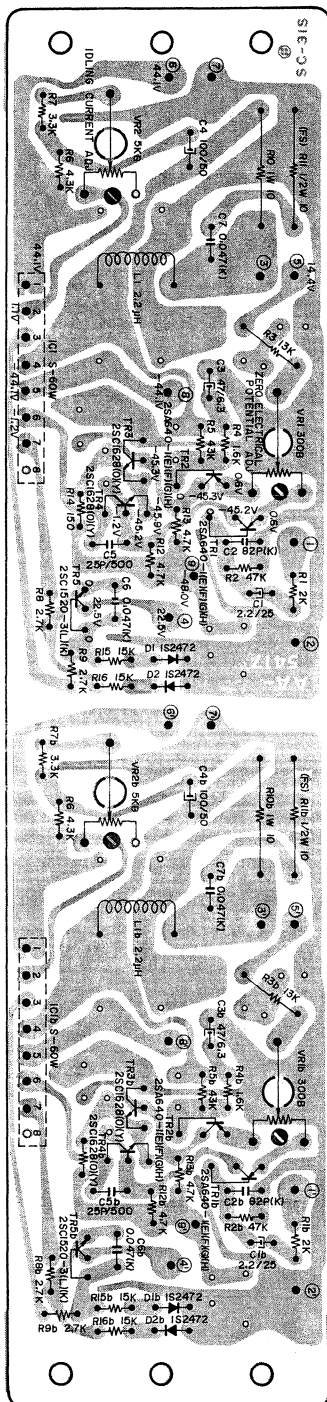
FILTER P.C BOARD A AA-5404 (AS-1080DB)



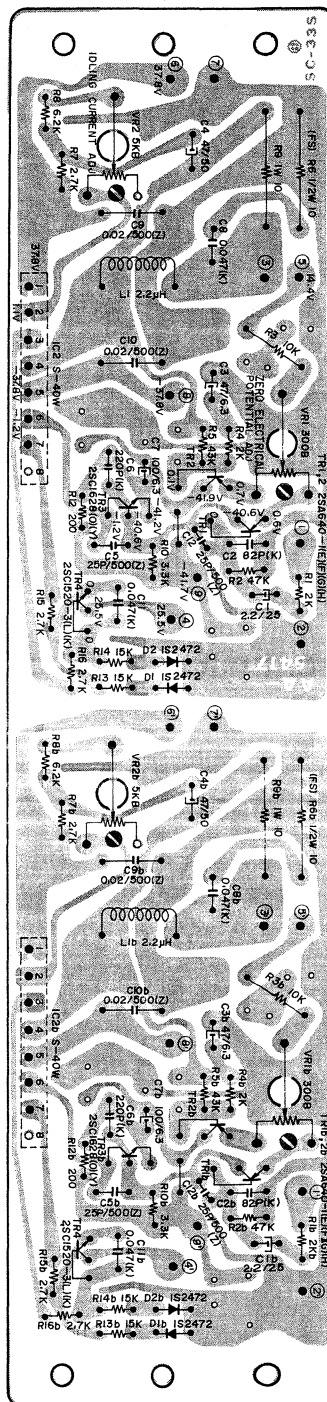
FILTER P.C BOARD C AA-5406 (AS-1070)



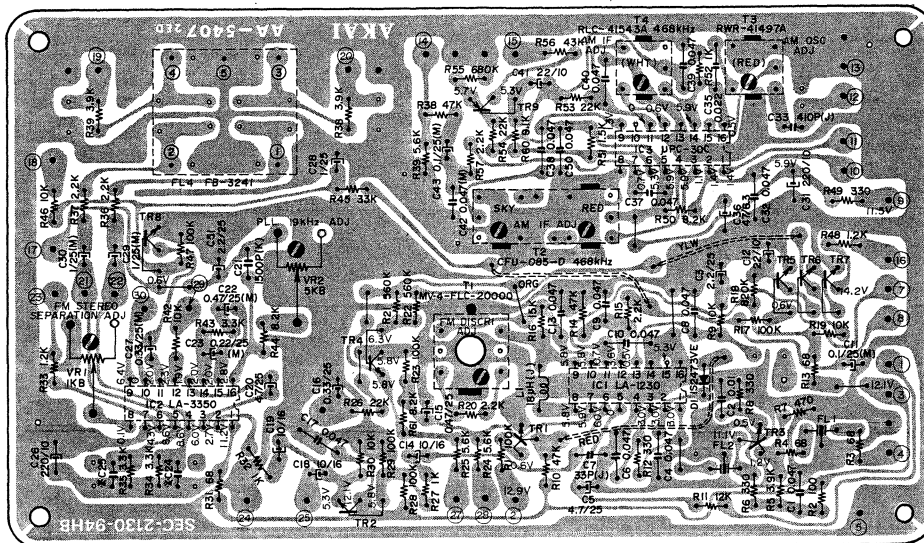
5) MAIN AMPLIFIER P.C BOARD AA-5417
(AS-1080, AS-1080DB)



6) MAIN AMPLIFIER P.C BOARD AA-5417
(AS-1070)



7) IF P.C BOARD AA-5407 (AS-1080, AS-1080DB)

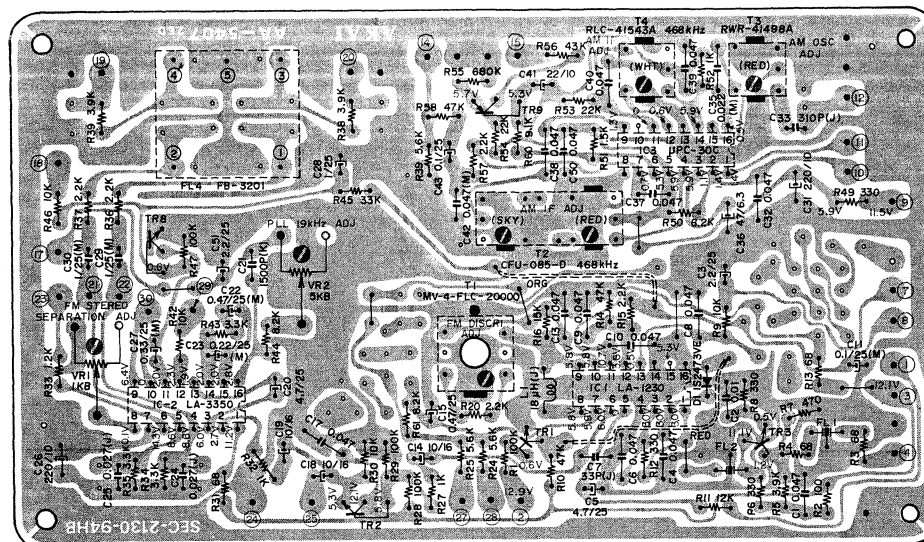


| MODEL | PC24, C25 |
|-----------|-----------|
| AS-1080 | 0.027(J) |
| AS-1080DB | 0.012(J) |

TR1, 4 to 8 2SC945L(P)(Q)
 TR2,3 2SC930(E)(F)
 TR9 2SA733(Q)(R)

FL1, 2 SFE-10.7MA-8-Z

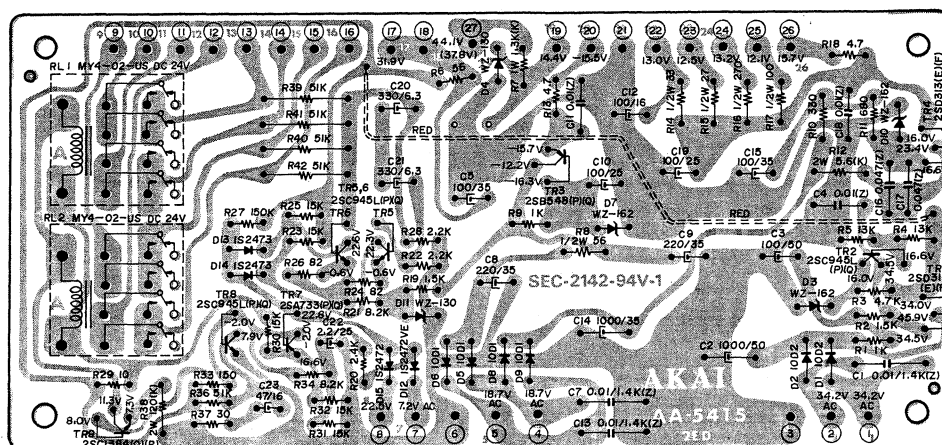
IF P.C BOARD AA-5407 (AS-1070)



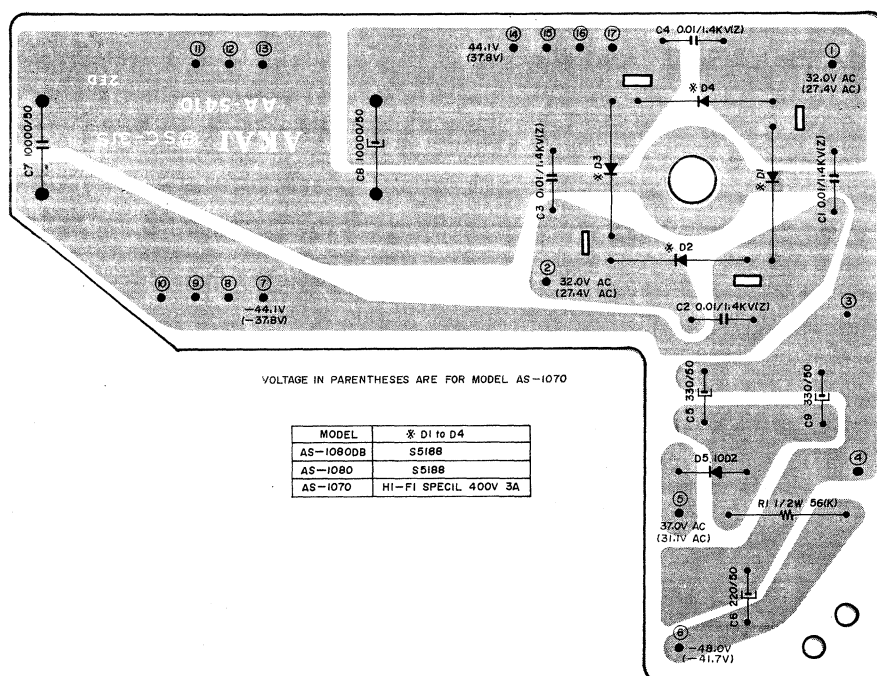
TR1, 8 2SC945L(P)(Q)
 TR2, 3 2SC930(E)(F)
 TR9 2SA733(Q)(R)

FL1, 2 SFE-10.7MA-8-Z

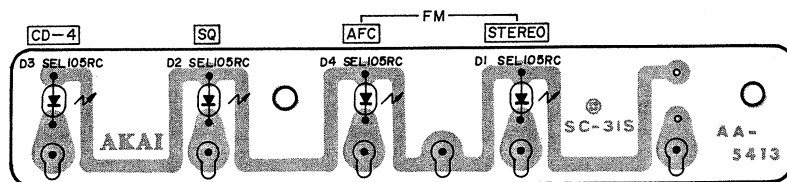
8) REGULATOR P.C BOARD AA-5415



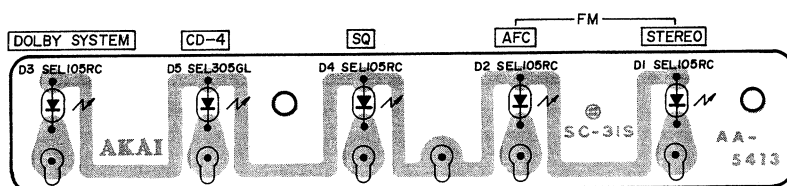
9) RECTIFIER P.C BOARD AA-5410



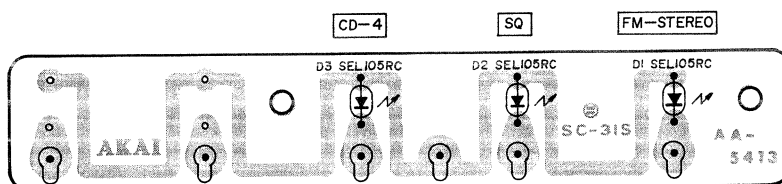
10) LED P.C BOARD AA-5413 (AS-1080)



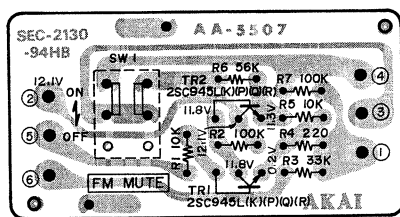
LED P.C BOARD AA-5413 (AS-1080DB)



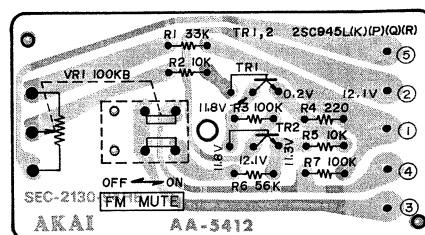
LED P.C BOARD AA-5413 (AS-1070)



11) MUTE P.C BOARD AA-5507 (AS-1080, AS-1070)



12) MUTE P.C BOARD AA-5412 (AS-1080DB)



SECTION 2

PARTS LIST

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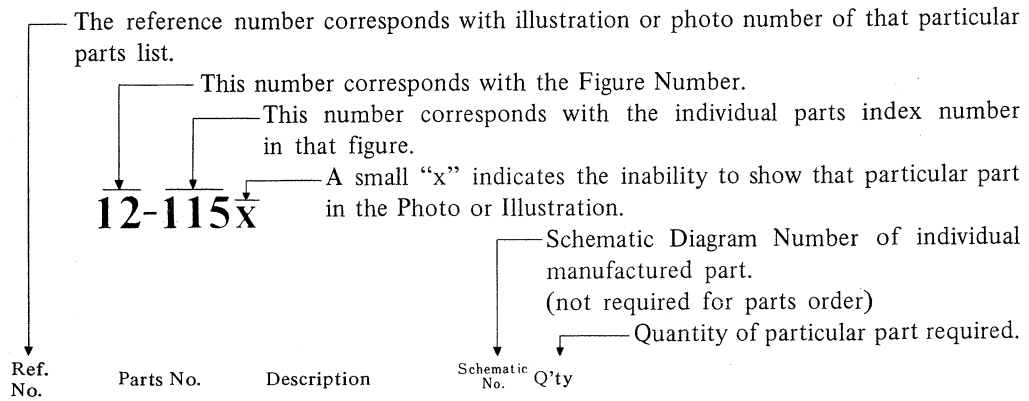
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Some of the parts in this parts list are only available as a complete assembly, and can not be supplied as individual parts.

Resistor and Capacitor which is not listed in this parts list, please refer to Common Parts List.

HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read List



4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of Components of the Schematic Diagram or Service Manual.
5. Please utilize separate "Common List for Service Parts" for Resistor Parts orders.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.
It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

BASIC PARTS LIST

| Parts Nomenclature | Parts No. | Parts Nomenclature | Parts No. |
|----------------------------------|-----------|--|-----------|
| MFC P.C Board Comp. | BA680815 | Power Trans. AS-1080T-5 | BT668248 |
| Tone P.C Board Comp. | BA657742 | Power Trans. AS-1070T-5 | BT656550 |
| Tone P.C Board Comp. (1070) | BA657731 | Front End FL329U | TA656583 |
| Dolby P.C Board Comp. (1080DB) | BA657663 | Front End FB-112U-12 (1070) | TA562735 |
| Filter P.C Board Comp. | BA657685 | Slide Volume VJ-308-45N25D2 100K | EV656616 |
| Filter P.C Board Comp. (1080DB) | BA657696 | Flywheel Block Comp. | BF671038 |
| Filter P.C Board Comp. (1070) | BA657674 | Scale Plate | TA652623 |
| Main Amp P.C Board Comp. | BA657876 | Scale Plate B (1070) | TA665098 |
| Main Amp P.C Board Comp. (1070) | BA657865 | Pointer | TA652757 |
| IF P.C Board Comp. | BA657764 | Front Panel B | SP656425 |
| IF P.C Board Comp. (1080DB) | BA657775 | Front Panel A (1080DB) | SP656414 |
| IF P.C Board Comp. (1070) | BA657753 | Front Panel C (1070) | SP656436 |
| Regulator P.C Board Comp. | BA680758 | Front Glass | SZ652285 |
| Rectifier P.C Board Comp. | BA680771 | Bottom Plate | SP652331 |
| Rectifier P.C Board Comp. (1070) | BA680760 | Cabinet | BC652634 |
| LED P.C Board Comp. | BA657628 | Tuning Knob (Large) | SK647967 |
| LED P.C Board Comp. (1080DB) | BA657630 | Push Button (Square) | SB679860 |
| LED P.C Board Comp. (1070) | BA657617 | Single Knob | SK646817 |
| Mute P.C Board Comp. | BA657707 | Double Knob (Upper) | SK644670 |
| Mute P.C Board Comp. (1080DB) | BA657720 | Double Knob (Lower) | SK645208 |
| Lamp, Lead Type 8V 190mA | EL668362 | Selector Knob | SK646830 |
| Rear Panel 1 | BZ657887 | Single Knob (Small) | SK647548 |
| Bar Antenna | TA656313 | 4 Ch. Small Double Knob (Upper) (1080DB) | SK677057 |
| Bar Antenna (1070) | TA656324 | 4 Ch. Small Double Knob (Lower) (1080DB) | SK677046 |
| Level Meter T-85-1061 | EM650902 | I.C S-60W | EL656256 |
| Tuning Meter T-85-1060 | EM650226 | I.C S-40W (1070) | EL656245 |

1. MULTI FUNCTION P.C BOARD (AA-5401) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|--|------|
| 1-1 | BA657808 | Multi Function P.C Board Comp. (AA-5401) | 1 |
| 1-2 | BA670522 | Multi Function P.C Board Comp. (AA-5401) (CSA) | 1 |
| 1-3 | BA680815 | Multi Function P.C Board (AA-5401) (CEE) | 1 |
| 1-IC1 | E1656976 | IC CX-050 | 1 |
| 1-IC2 | E1656965 | IC CX-049 | 1 |
| 1-IC3 | E1656987 | IC CX-718 | 1 |
| 1-IC4 | E1656958 | IC CD4-392 | 1 |
| 1-IC5,6 | E1657000 | IC TA7129P | 2 |
| 1-IC7 | E1656958 | IC CD4-392 | 1 |
| 1-TR1to4 | ET459810 | Transistor 2SC1222(E) (F) | 4 |
| 1-TR5to10 | ET639437 | Transistor 2SC945L (Q) (P) | 6 |
| 1-TR11 | ET554657 | Transistor 2SA733 (P) (Q) | 1 |
| 1-TR12 | ET639437 | Transistor 2SC945L (Q) (P) | 1 |
| 1-TR13 | ET459810 | Transistor 2SC1222 (E) (F) | 1 |
| 1-TR14 | ET665842 | Transistor 2SA640 (F) | 1 |
| 1-TR15to18 | ET639437 | Transistor 2SC945L (Q) (P) | 4 |
| 1-TR19 | ET554657 | Transistor 2SA733 (P) (Q) | 1 |
| 1-TR20 | ET639437 | Transistor 2SC945L (Q) (P) | 1 |
| 1-TR21 | ET459810 | Transistor 2SC1222 (E) (F) | 1 |
| 1-TR22 | ET460912 | Transistor 2SA640 (L) (M) | 1 |
| 1-TR23to25 | ET639437 | Transistor 2SC945L (Q) (P) | 3 |
| 1-D1to6 | ED560913 | Silicon Diode 1S2473VE | 6 |
| 1-D7to9 | ED657011 | Silicon Diode 1T243M-47 | 3 |
| 1-D10 | ED560913 | Silicon Diode 1S2473 VE | 1 |
| 1-D11,12 | ED657022 | Silicon Diode 1S2473F | 2 |
| 1-D13 | ED560913 | Silicon Diode 1S2473 VE | 1 |
| 1-D14to18 | ED657022 | Silicon Diode 1S2473F | 5 |
| 1-D19 | ED510772 | Zener Diode WZ-120 | 1 |
| 1-L1,2 | E0656943 | Inductor RCP-095 22MH(K) | 2 |
| 1-L3,4 | E0656932 | Inductor RC875 22MH(K) | 2 |
| 1-L5,6 | E0656943 | Inductor RCP-095 22MH(K) | 2 |
| 1-L7,8 | E0656954 | Inudctor RCP-095 100MH(J) | 2 |
| 1-VR1,2 | EV465017 | Semi-fixed/Vol. V8K4-1 200 k Ω | 2 |
| 1-VR3to7 | EV520806 | Semi-fixed/Vol. V8K4-1 10 k Ω | 5 |
| 1-V1to4 | ED657033 | Verister VD-1221 | 4 |
| 1-SW1 | ES657077 | Rotary SW. SRA-7245 | 1 |
| 1-SW2 | ES657088 | Rotary SW. SRA-4165 | 1 |
| 1-SW3 | ES657050 | Rotary SW. SRA-495 | 1 |
| 1-4 | BA657810 | Jack P.C Board Comp. (AA-5402) | |

Capacitor, Vertical Type

| | | | |
|--------|----------|-------------------------------------|---|
| 1-C85 | EC523282 | Solid Aluminum 0.1 μ F(M) 25WV | 1 |
| 1-C97 | EC657055 | Solid Aluminum 0.68 μ F(M) 25WV | 1 |
| 1-C101 | EC662126 | Solid Aluminum 2.2 μ F(M) 25WV | 1 |
| 1-C102 | EC522167 | Solid Aluminum 0.22 μ F(M) 25WV | 1 |
| 1-C103 | EC604440 | Solid Aluminum 0.33 μ F(M) 25WV | 1 |
| 1-C106 | EC657066 | Solid Aluminum 0.15 μ F(M) 25WV | 1 |
| 1-C140 | EC516756 | Styrol 390PF(K) 50WV | 1 |
| 1-C155 | EC523282 | Solid Aluminum 0.1 μ F(M) 25WV | 1 |
| 1-C164 | EC657055 | Solid Aluminum 0.68 μ F(M) 25WV | 1 |
| 1-C168 | EC662128 | Solid Aluminum 2.2 μ F(M) 25WV | 1 |
| 1-C169 | EC522167 | Solid Aluminum 0.22 μ F(M) 25WV | 1 |
| 1-C170 | EC604440 | Solid Aluminum 0.33 μ F(M) 25WV | 1 |
| 1-C174 | EC657066 | Solid Aluminum 0.15 μ F(M) 25WV | 1 |

2. TONE P.C BOARD (AA-5403) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|--|------|
| 2-1 | BA657742 | Tone P.C Board Comp. (AA-5403) (1080/DB) | 1 |
| 2-2 | BA657731 | Tone P.C Board Comp. (AA-5403) (1070) | 1 |
| 2-3 | BA670511 | Tone P.C Board Comp. (AA-5403) (1080/DB) (CSA) | 1 |
| 2-4 | BA670500 | Tone P.C Board Comp. (AA-5403) (1070) (CSA) | 1 |

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|--|------|
| 2-TR1 | ET234843 | Transistor 2SC458LG (B) (C) | 4 |
| 2-TR2 | ET655615 | Transistor 2SA640 (E) (F) | 4 |
| 2-TR3,4 | ET622181 | Transistor 2SC1000 (BL) (GR) | 6 |
| 2-SW1 | ES656831 | Rotary SW. SRA-6186 | 1 |
| 2-VR1 | EV656842 | Co-axial 4-throw/Vol. V24L5GPHN 3BM 100kx4 | 1 |
| 2-VR2,3 | EV656876 | 2-axial 4-throw/Vol. V24L5GPHN 1 k Ω 100kx4 | 2 |
| 2-VR2,3 | EV656864 | Co-axial 4-throw/Vol. V24L5GPHN 1 k Ω 100kx4 (1070) | 2 |
| 2-VR4,5 | EV656853 | Co-axial 4-throw/Vol. V24L5GPHN 1 Z250kx4 | 2 |
| 2-P1,2 | EJ656886 | Connector Pin 10P 5095-10D | 2 |
| 2-P3 | EJ656897 | Connector Pin 8P 5095-8D | 1 |

3. DOLBY P.C BOARD (AA-5408) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|--|------|
| 3-1 | BA657663 | Dolby P.C Board Comp. (AA-5408) (1080DB) | 1 |
| 3-IC1 | E1605013 | IC NE545B | 4 |
| 3-TR1 | ET639437 | Transistor 2SC945L (Q) (P) | 4 |
| 3-TR2 | ET658102 | Transistor 2SC945L (K) | 1 |
| 3-D1 | ED562386 | Germanium Diode 1S188AM | 4 |
| 3-D2 | ED510772 | Zener Diode WL-120 | 1 |
| 3-SW1 | ES658884 | Rotary SW. SR26N 8-23-5 40S | 1 |
| 3-VR1 | EV658895 | Double Vol. V24L5DPHN 100 k Ω x2 | 4 |
| 3-VR2 | EV560136 | Semi-fixed/Vol. V10K8-4-2 20 k Ω | 1 |
| 3-VR3 | EV604438 | Semi-fixed/Vol. V10K8-4-2 10 k Ω | 1 |
| 3-TH1 | ED485370 | Thermister 112351-2 | 1 |

Capacitor, Vertical Type

| | | | |
|-------|----------|-------------------------------------|---|
| 3-C4 | EC523282 | Solid Aluminum 0.1 μ F(M) 25WV | 4 |
| 3-C9 | EC604440 | Solid Aluminum 0.33 μ F(M) 25WV | 4 |
| 3-C10 | EC523282 | Solid Aluminum 0.1 μ F(M) 25WV | 4 |
| 3-C22 | EC516767 | Styrol 470PF (K) 50WV | 1 |

4. FILTER P.C BOARD (AA-5404, 5405, 5406) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|--|------|
| 4-1 | BA657685 | Filter P.C Board Comp. (AA-5405) | 1 |
| 4-2 | BA657696 | Filter P.C Board Comp. (AA-5404) (1080DB) | 1 |
| 4-3 | BA657674 | Filter P.C Board Comp. (AA-5406) (1070) | 1 |
| 4-TR1 | ET459810 | Transistor 2SC1222 (E) (F) | 4 |
| 4-SW1 | ES656730 | Push SW. 5FT-0001 FF6620 | 1 |
| 4-SW1 | ES656741 | Push SW. 6FT-0002 FF6620 (1080DB) | 1 |
| 4-SW1 | ES656728 | Push SW. 6FT-0001 FF6620 (1070) | 1 |
| 4-D1to4 | ED562386 | Germanium Diode 1S188AM | 4 |
| 4-D1to8 | ED562386 | Germanium Diode 1S188AM (1080DB) | 8 |
| 4-D1,2 | ED562386 | Germanium Diode 1S188AM (1070) | 2 |
| 4-VR1to4 | EV484863 | Semi-fixed/Vol. V10K8-4-2 1 k Ω (metalized Film) (1080DB) | 4 |
| 4-J1,2 | EJ656785 | Jack 10P 2145-10B | 2 |
| 4-J3 | EJ656796 | Jack 8P 2145-8B | 1 |

When ordering parts, Please describe Parts Number, Serial Number, and Model Number in detail.

Noise reduction circuit made under license from Dolby Laboratories Inc.

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5. MAIN AMP P.C BOARD (AA-5417) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|---|------|
| 5-1 | BA657876 | Main Amp P.C Board Comp. (AA-5417) (1080/DB) | 1 |
| 5-TR1,2 | ET661836 | Transistor 2SA640-1 (P) (Q) | 4 |
| 5-TR3,4 | ET623035 | Transistor 2SC1628 (O) (Y) | 4 |
| 5-TR5 | ET656267 | Transistor 2SC1520(3) | 2 |
| 5-D1,2 | ED656278 | Silicon Diode 1S2472 | 4 |
| 5-VR1 | EV604484 | Semi-fixed/Vol. V10K8-4-2 B300 ohms | 2 |
| 5-VR2 | EV499364 | Semi-fixed/Vol. V10K8-4-2 5 k Ω | 2 |
| 5-L1 | E0650823 | Phase Equalizer Coil 2.2 μ H (K) | 2 |
| 5-R10 | ER658124 | Metal Oxide Film/R. 1W 10 ohms (J) | 2 |

6. MAIN AMP P.C BOARD (AA-5417) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|--|------|
| 6-1 | BA657865 | Main Amp P.C Board Comp. (AA-5417) (1070) | 1 |
| 6-TR1,2 | ET661836 | Transistor 2SA640-1 (P) (Q) | 4 |
| 6-TR3 | ET623035 | Transistor 2SC1628 (O) (Y) | 2 |
| 6-TR4 | ET656267 | Transistor 2SC1520-3 (L) (K) | 2 |
| 6-D1,2 | ED656278 | Silicon Diode 1S2472 | 4 |
| 6-VR1 | EV604484 | Semi-fixed/Vol. V10K8-4-2 300 ohms (B) | 2 |
| 6-VR2 | EV499364 | Semi-fixed/Vol. V10K8-4-2 5 k Ω | 2 |
| 6-L1 | ED650823 | Phase Equalizer Coil 2.2 μ H (K) | 2 |
| 6-R6 | ER658124 | Metal Oxide Film/R. 1W 10 ohms (J) | 2 |

7. IF P.C BOARD (AA-5407) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|---|------|
| 7-1 | BA657764 | IF P.C Board Comp. (AA-5407) | 1 |
| 7-2 | BA657775 | IF P.C Board Comp. (AA-5407) (1080DB) | 1 |
| 7-3 | BA657753 | IF P.C Board Comp. (AA-5407) (1070) | 1 |
| 7-IC1 | E1650586 | IC LA-1230 | 1 |
| 7-IC2 | E1650597 | IC LA-3350A | 1 |
| 7-IC3 | E1650362 | IC MPC-30C | 1 |
| 7-TR1 | ET639437 | Transistor 2SC945L (Q) (P) | 1 |
| 7-TR2,3 | ET618873 | Transistor 2SC930 (E) (F) | 2 |
| 7-TR4to8 | ET639437 | Transistor 2SC945L (Q) (P) (1080/DB) | 5 |
| 7-TR8 | ET639437 | Transistor 2SC945L (Q) (P) (1070) | 1 |
| 7-TR9 | ET557965 | Transistor 2SA733 (Q) (R) | 1 |
| 7-D1 | ED560913 | Silicon Diode 1S2473VE | 1 |
| 7-T1 | E0650608 | Discri Coil MV4-FLC-20000 | 1 |
| 7-T2 | E0650384 | AM-IF Trans. CFU-085-D 468 kHz | 1 |
| 7-T3 | E0645838 | OSC. Coil RWR41497A (1080/DB) | 1 |
| 7-T3 | E0650395 | OSC. Coil RWR41498A (1070) | 1 |
| 7-T4 | E0650373 | AM-IF Trans. RLC-41543A 468 kHz | 1 |
| 7-FL1to3 | ER650430 | Ceramic Filter SFE-10.7 MA-8-Z (1080/DB) | 3 |
| 7-FL1,2 | ER650430 | Ceramic Filter SFE-10.7MA-8-Z (1070) | 2 |
| 7-FL4 | ER656908 | Block Filter FB3201 | 1 |

| Symbol No. | Parts No. | Description | Q'ty |
|---------------------------------|-----------|--|------|
| 7-L1 | E0560610 | Inductor 144LZ 18 μ H (J) | 1 |
| 7-VR1 | EV484863 | Semi-fixed/Vol. V10K8-4-2 1 k Ω (Metalized Film) | 1 |
| 7-VR2 | EV499364 | Semi-fixed/Vol. V10K8-4-2 5 k Ω | 1 |
| Capacitor, Vertical Type | | | |
| 7-C11 | EC523282 | Solid Aluminum 0.1 μ F(M) 25WV | 1 |
| 7-C16 | EC604440 | Solid Aluminum 0.33 μ F(M) 25WV | 1 |
| 7-C21 | EC666483 | Styrol 1500PF(K) 50WV | 1 |
| 7-C22 | EC621257 | Solid Aluminum 0.47 μ F(M) 25WV | 1 |
| 7-C23 | EC522167 | Solid Aluminum 0.22 μ F(M) 25WV | 1 |
| 7-C27 | EC604440 | Solid Aluminum 0.33 μ F(M) 25WV | 1 |
| 7-C29,30 | EC522516 | Tantalum 1 μ F(M) 25WV (DTS Type) | 2 |
| 7-C33 | EC658001 | Styrol 410PF(J) 50WV (1080/DB) | 1 |
| 7-C33 | EC650406 | Styrol 310PF(J) 50WV (1070) | 1 |
| 7-C43 | EC523282 | Solid Aluminum 0.1 μ F(M) 25WV | 1 |

8. REGULATOR P.C BOARD (AA-5415) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|--|------|
| 8-1 | BA680758 | Regulator P.C Board Comp. (AA-5415) | 1 |
| 8-TR1 | ET452531 | Transistor 2SD313 (E) (F) | 1 |
| 8-TR2 | ET639437 | Transistor 2SC945L (Q) (P) | 1 |
| 8-TR3 | ET656910 | Transistor 2SB548 (P) (Q) | 1 |
| 8-TR4 | ET452531 | Transistor 2SD313 (E) (F) | 1 |
| 8-TR5,6 | ET639437 | Transistor 2SC945L (Q) (P) | 2 |
| 8-TR7 | ET554657 | Transistor 2SA733 (P) (Q) | 1 |
| 8-TR8 | ET639437 | Transistor 2SC945L (Q) (P) | 1 |
| 8-TR9 | ET658067 | Transistor 2SC1384 (Q) (P) | 1 |
| 8-D1,2 | ED224548 | Silicon Diode 10D2 | 2 |
| 8-D3 | ED494627 | Zener Diode WZ162 | 1 |
| 8-D4 | ED539976 | Zener Diode WZ-130 | 1 |
| 8-D5,6 | ED224526 | Silicon Diode 10D1 | 2 |
| 8-D7 | ED494627 | Zener Diode WZ-162 | 1 |
| 8-D8,9 | ED224526 | Silicon Diode 10D1 | 2 |
| 8-D10 | ED494627 | Zener Diode WZ-162 | 2 |
| 8-D11 | ED539976 | Zener Diode WZ-130 | 1 |
| 8-D12to14 | ED560913 | Silicon Diode 1S2473VE | 3 |
| 8-D15 | ED656278 | Silicon Diode 1S2472 | 1 |
| 8-RL1,2 | EP638763 | Relay MY4-02-US DC24V | 2 |
| 8-2 | ZW632226 | Insulator Washer Bush M | 2 |
| 8-3 | ZS379350 | Screw, pan head 3x6 | 2 |
| 8-4 | ZS447840 | Trapping Screw #2 3x8 (BR) | 2 |
| 8-R12 | ER656921 | Metal Oxide Film/R. 2W 5.6 ohms (K) | 1 |
| 8-R38 | ER658091 | Metal Oxide Film/R. 2W 120 ohms (K) | 1 |

9. RECTIFIER P.C BOARD (AA-5410) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|---|------|
| 9-1 | BA680771 | Rectifier P.C Board Comp. (AA-5410) | 1 |
| 9-2 | BA680760 | Rectifier P.C Board Comp. (AA-5410) (1070) | 1 |
| 9-D1to4 | ED656234 | Silicon Diode S5188 | 1 |
| 9-D1to4 | ED558033 | Silicon Diode HIFI SPECIAL 400V 3A (1070) | 4 |
| 9-D5 | ED224548 | Silicon Diode 10D2 | 1 |

When ordering parts, Please describe Parts Number, Serial Number, and Model Number in detail.

10. LED P.C BOARD (AA-5413) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|---|------|
| 10-1 | BA657628 | LED P.C Board Comp. (AA-5413) | 1 |
| 10-2 | BA657630 | LED P.C Board Comp. (AA-5413) (1080DB) | 1 |
| 10-3 | BA657617 | LED P.C Board Comp. (AA-5413) (1070) | 1 |
| 10-D1to4 | ED694091 | Luminous Diode SEL-105RC (1080/DB) | 4 |
| 10-D1 | ED694091 | Luminous Diode SEL-105RC (1070) | 1 |
| 10-D3,4 | ED694091 | Luminous Diode SEL-105RC (1070) | 2 |
| 10-4 | TA652678 | Lamp Retainer (AA-5485) | 1 |
| 10-5 | ZS325495 | Tapping Screw #2 3x6 (BR) | 2 |

11. MUTE P.C BOARD (AA-5507) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|---------------------------------------|------|
| 11-1 | BA657707 | Mute P.C Board Comp. (AA-5507) | 1 |
| 11-TR1,2 | ET635218 | Transistor 2SC945L (K) (P) (Q) (R) | 2 |
| 11-SW1 | ES656820 | Push SW. SPG202C | 1 |

12. MUTE P.C BOARD (AA-5412) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|------------|-----------|--|------|
| 12-1 | BA657720 | Mute P.C Board Comp. (AA-5412) (1080DB) | 1 |
| 12-TR1,2 | ET635218 | Transistor 2SC945L (K) (P) (Q) (P) | 2 |
| 12-VR1 | EV656818 | Vol. V16L4PHS 100 kB | 1 |

13) ASSEMBLY BLOCK

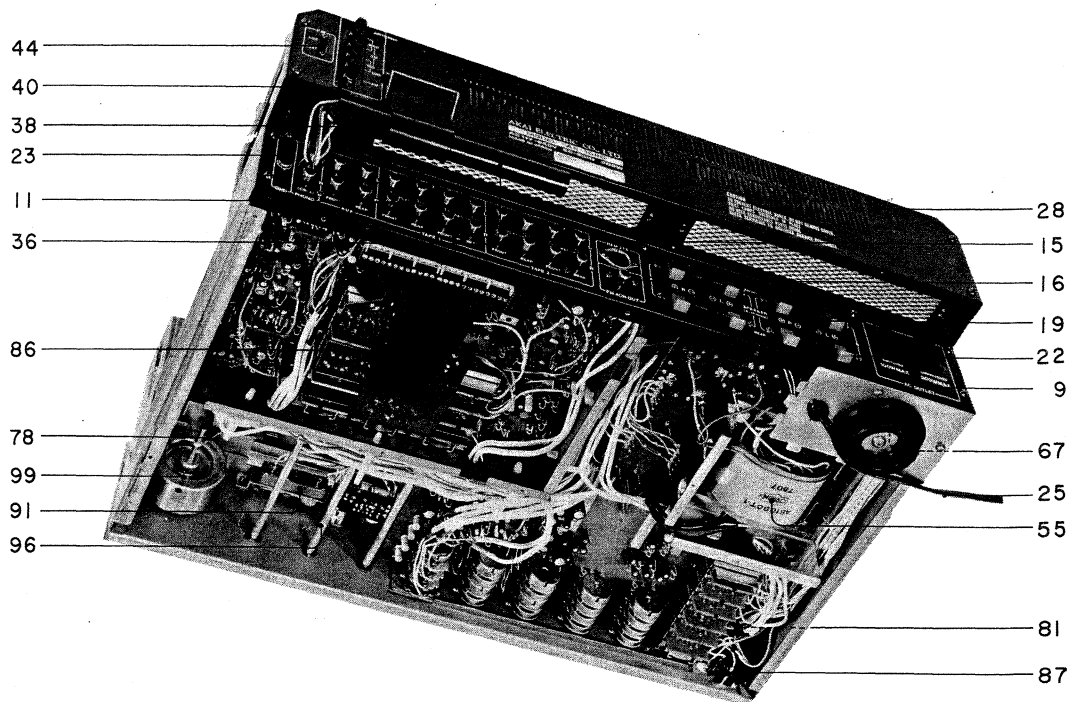
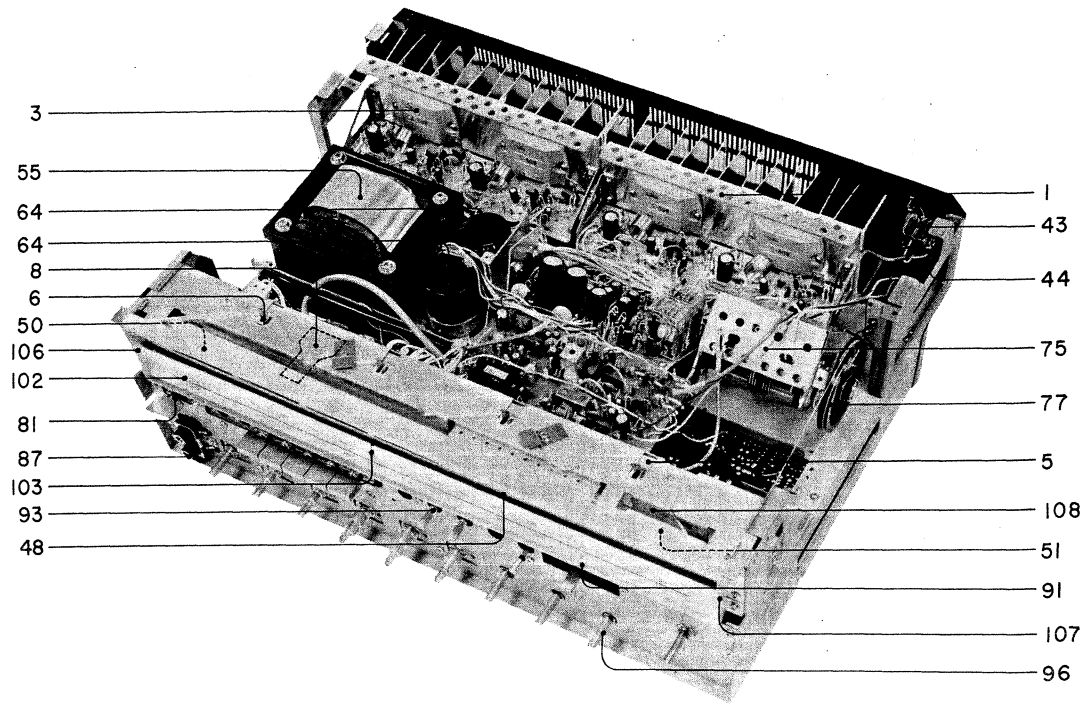
| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|------------------------------|-----------|---------------------------------------|---------------|------|
| MAIN AMP BLOCK | | | | |
| 13-1 | EZ652162 | Heat-sink | AA-5472 | 1 |
| 13-2x | EI656245 | IC S-40W (1070) | 45-8-157 | 4 |
| 13-3 | EI656256 | IC S-60W | 45-8-158 | 4 |
| 13-4x | ZW379394 | ISO Screw, round head 3x8 | | 4 |
| ILLUMINATION BLOCK | | | | |
| 13-5 | EZ652454 | Lamp P.C Board | AA-5418 | 1 |
| 13-6 | EL668362 | Pilot Lamp 8V 190MA (Lead Type) | 28-2-50 | 4 |
| 13-7x | MB650147 | Rubber Bushing No. 6552 | 3-13-44 | 4 |
| REAR PANEL BLOCK | | | | |
| 13-8 | EA652476 | Remote P.C Board | AA-5411 | 1 |
| 13-9 | SP656447 | Rear Panel 1 | AA-5469 | 1 |
| 13-10x | SP665998 | Rear Panel 2 (CEE) | AA-5469 | 1 |
| 13-11 | EJ656280 | Pin Jack Plate | 31-1-152 | 1 |
| 13-12x | EA652803 | Pin Jack P.C Board | AA-5409 | 1 |
| 13-13x | EJ656291 | Connector Pin 12P 2461-12B | 42-1-92 | 2 |
| 13-14x | ZS366120 | Screw, round head 3x6 | | 6 |
| 13-15 | MZ665032 | 8P Cable Connector | 51-1-129 | 1 |
| 13-16 | EJ354936 | Pin Jack 1P | 31-1-32 | 1 |
| 13-17x | ZS447761 | Tapping Screw #2 3x6 (BR) (Black) | | 2 |
| 13-18x | ZS393794 | Screw, round head 3x8 | | 2 |
| 13-19 | EJ655683 | 4P Speaker Jack C | 32-1-68 | 4 |
| 13-20x | ZS393794 | Screw, round head 3x8 | | 8 |
| 13-21x | ZW273756 | Nut M3 | | 8 |
| 13-22 | EJ650261 | AC Consent U/L S-16432 | 31-1-147 | 2 |
| 13-23 | SK652397 | Knob 0512-2 | 34-1-4 | 1 |
| 13-24x | ZW651082 | Washer D3.2x10x1t | | 1 |
| 13-25 | EW374894 | AC Cord CUL 3M | 26-3-19 | 1 |
| 13-26x | EW516600 | AC Cord VM-0065 (CEE) | 26-3-28 | 1 |
| HEAT-SINK COVER BLOCK | | | | |
| 13-27x | EZ656458 | Heat-sink Cover (1070) | AA-5476 | 1 |
| 13-28 | EZ654941 | Heat-sink Cover B | AA-5476 | 1 |
| 13-29x | EZ654952 | Heat-sink Cover C (1080DB) | AA-5476 | 1 |
| 13-30x | EZ669150 | Heat-sink Cover A-1 (1070) (CSA) | AA-5476 | 1 |
| 13-31x | MZ669172 | Heat-sink Cover B-1 (1080) (CSA) | AA-5476 | 1 |
| 13-32x | MZ669194 | Heat-sink Cover C-1 (1080DB) (CSA) | AA-5476 | 1 |
| 13-33x | MZ669161 | Heat-sink Cover A-2 (1070) (CEE) | AA-5476 | 1 |
| 13-34x | MZ669183 | Heat-sink Cover B-2 (1080) (CEE) | AA-5476 | 1 |
| 13-35x | MZ669205 | Heat-sink Cover C-2 (1080DB) (CEE) | AA-5476 | 1 |
| 13-36 | TA656313 | Bar Antenna | 55-1-29 | 1 |
| 13-37x | TA656324 | Bar Antenna (1070) | 55-1-27 | 1 |
| 13-38 | TA530910 | Antenna Channel | 91-5029 | 1 |
| 13-39x | ZS447761 | Tapping Screw #2 3x6 (BR) (Black) | | 2 |
| 13-40 | EZ655187 | 5P Antenna Terminal Plate | 32-1-69 | 1 |
| 13-41x | ZS393794 | Screw, round head 3x8 | | 4 |
| 13-42x | ZW273756 | Nut M3 | | 3 |
| 13-43 | BT444137 | Balun Trans. 75 ohms- 300 ohms | 23-1-129 | 1 |
| 13-44 | ES656335 | Slide SW. SSB02210 | 25-3-117 | 1 |
| 13-45x | ZS463353 | Tapping Screw #2 3x8 (BR) | | 4 |
| 13-46x | TA652691 | Heat-sink Ventilator | AA-5480 | 1 |
| METER PLATE BLOCK | | | | |
| 13-47x | SP656381 | Meter Panel A (1080DB) | AA-5446 | 1 |
| 13-48 | SP656392 | Meter Panel B | AA-5446 | 1 |
| 13-49x | SP656403 | Meter Panel C (1070) | AA-5446 | 1 |
| 13-50 | EM650902 | Level Meter 85C226 | 46-1-102 | 4 |
| 13-51 | EM650226 | Tuning Meter 85C225 | 46-1-103 | 1 |
| ASSEMBLY BLOCK | | | | |
| 13-52x | MR530651 | Roller A | 91-5008 | 4 |
| 13-53x | ZS530673 | Roller Screw A | 91-5010 | 4 |
| 13-54x | ZS447840 | Tapping Screw #2 3x8 (BR) | | 4 |
| 13-55 | BT668248 | Power Trans. AS-1080T-5 | 38-4-399 | 1 |

When ordering parts, Please describe Parts Number, Serial Number, and Model Number in detail.

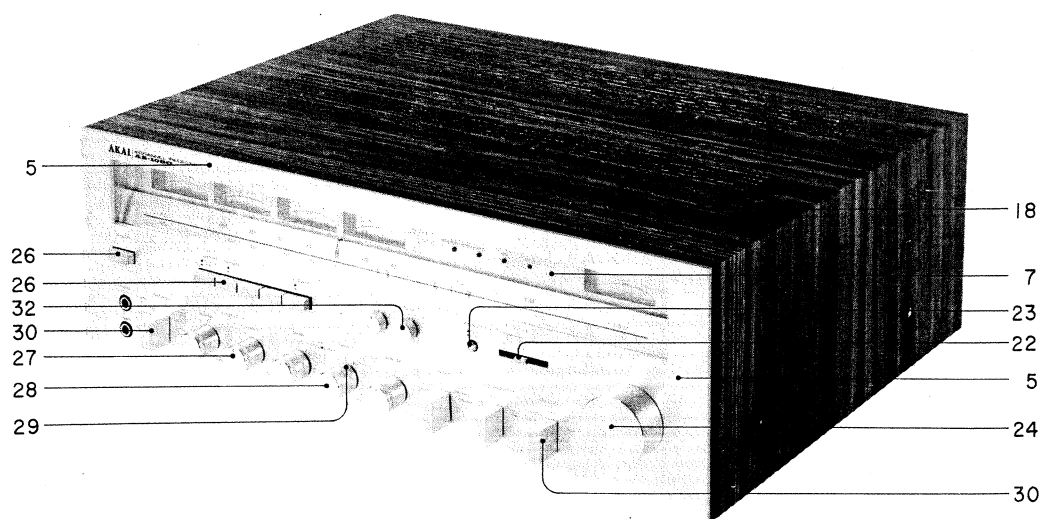
| Ref. No. | Parts No. | Description | Schematic No. | Q'ty | Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|----------|-----------|---|---------------|------|----------|-----------|--|---------------|------|
| 13-56x | BT656550 | Power Trans. AS-1070T-5 (1070) | 38-4-385 | 1 | 13-116x | EF602550 | Fuse 1.25AT 250V (Semko T Type (1070) (CEE) | 39-1-53 | 1 |
| 13-57x | BT669216 | Power Trans. 1070T-2 (1070) (CSA) | 38-4-402 | 1 | 13-117x | EF601964 | Fuse 1.6AT (Semko T Type) (CEE) | 39-1-53 | 1 |
| 13-58x | BT663478 | Power Trans. AS-1080T-2 (1080/DB) (CSA) | 38-4-398 | 1 | 13-118x | EF690996 | Fuse 4AT (Semko T Type) (CEE) | 39-1-53 | 1 |
| 13-59x | BT691018 | Power Trans. AS-1080T-3 (1080/DB) (CEE) | 38-4-414 | 1 | 13-119x | EF691007 | Fuse 3.15AT (Semko T Type) (1070) (CEE) | 39-1-53 | 1 |
| 13-60x | BT674526 | Power Trans. AS-1070T-3 (1070) (CEE) | 38-4-410 | 1 | 13-120x | EF623103 | Fuse 1AT (Semko T Type) (CEE) | 39-1-53 | 1 |
| 13-61x | ZW462688 | Washer D5.1x11.5x1t | | 4 | 13-121x | EF601942 | Fuse 630MAT (Semko Type) (CEE) | 39-1-53 | 4 |
| 13-62x | ZW274026 | Spring Washer M5 | | 4 | | | | | |
| 13-63x | ZW413278 | Nut M5 | | 4 | | | | | |
| 13-64 | EC656561 | Elect./C. 10000μF 50WV (Lug Type) | 24-10-104 | 2 | | | | | |
| 13-65x | ZS325495 | Tapping Screw #2 3x6 (BR) | | 4 | | | | | |
| 13-66x | ZS593201 | Screw, pan head 3x16 | | 1 | | | | | |
| 13-67 | EZ652410 | Fuse Holder 3P Table | 40-1-68 | 1 | | | | | |
| 13-68x | EZ663480 | Fuse Holder 2P Table (CSA) | 40-1-73 | 1 | | | | | |
| 13-69x | EZ655198 | Fuse Holder 5P Base (CSA) | 40-1-71 | 1 | | | | | |
| 13-70x | EZ689545 | 2P Fuse Holder (Large) (1070) (CSA) | 40-1-92 | 1 | | | | | |
| 13-71x | EZ692087 | 2P Fuse Holder (Small) (1070) (CEE) | 40-1-93 | 1 | | | | | |
| 13-72x | EZ691020 | 2P Fuse Holder (Small) (CEE) | 40-1-89 | 1 | | | | | |
| 13-73x | EZ691064 | 5P Fuse Holder (Small) (1070) (CEE) | 40-1-78 | 1 | | | | | |
| 13-74x | EV656572 | 2-throw Vol. V16L4GN 100kBX2 (1080DB) | 36-22-15 | 2 | | | | | |
| 13-75 | TA656583 | Front End FL329U | 57-2-36 | 1 | | | | | |
| 13-76x | TA562735 | Front End FB112U21 (1070) | 57-2-29 | 1 | | | | | |
| 13-77 | MR656594 | Pulley | 2-14-32 | 1 | | | | | |
| 13-78 | TA676890 | Dial Thread 1.9m | | 1 | | | | | |
| 13-79x | ED539820 | Peaking Coil 2.2μH(K) (1070) | 23-1-187 | 1 | | | | | |
| 13-80x | EA668755 | Peaking Coil P.C Board (1070) | AA-5063 | 1 | | | | | |
| 13-81 | ES664222 | Push SW. SDG5P | 25-5-202 | 1 | | | | | |
| 13-82x | ES665807 | Push SW. SDG-5P (CEE) | 25-5-182 | 1 | | | | | |
| 13-83x | EC551160 | Ceramic/C. NB821YZ 0.01μF(Z) 1.4 kWV | 24-5-55 | 1 | | | | | |
| 13-84x | EC551160 | Ceramic/C. NB821YZ 0.01μF(Z) 1.4 kWV (CSA) | 24-5-55 | 2 | | | | | |
| 13-85x | ZS432674 | Screw, pan head 3x3 | | 2 | | | | | |
| 13-86 | MZ653411 | Cushion 1 | AA-5471 | 2 | | | | | |
| 13-87 | EJ656605 | 2-throw Jack | 31-2-68 | 1 | | | | | |
| 13-88x | ZS455207 | Tapping Screw #2 3x5 (BR) | | 2 | | | | | |
| 13-89x | MR530662 | Roller B | 91-5009 | 1 | | | | | |
| 13-90x | ZS530684 | Roller Screw B | 91-5010 | 1 | | | | | |
| 13-91 | EV656616 | Slide Vol. VJ308-45N25D2 100 kB | 36-21-3 | 1 | | | | | |
| 13-92x | ZS432843 | Screw, pan head 2.6x4 | | 2 | | | | | |
| 13-93 | EV656627 | Vol. V16L4N 10 kB | 36-6-18 | 2 | | | | | |
| 13-94x | TA674752 | Cushion 3 (1080DB) | AA-5551 | 2 | | | | | |
| 13-95x | TA695722 | Cushion 4 (1080DB) | AA-5552 | 2 | | | | | |
| 13-96 | MS652724 | Connector Shaft | AA-5455 | 3 | | | | | |
| 13-97x | TA646773 | Joint | AA-5240 | 3 | | | | | |
| 13-98x | ZW270123 | 'E' Ring 4M | 6-1-9 | 6 | | | | | |
| 13-99 | BF671038 | Flywheel Block Comp. | | 1 | | | | | |
| 13-100x | ZW610492 | Nut M11 | 36-13-3 | 1 | | | | | |
| 13-101x | TA665098 | Scale Plate B (1070) | AA-5442 | 1 | | | | | |
| 13-102 | TA652623 | Scale Plate | AA-5442 | 1 | | | | | |
| 13-103 | TA652757 | Pointer | AA-5448 | 1 | | | | | |
| 13-104x | TA646784 | Pointer Base | AA-5241 | 1 | | | | | |
| 13-105x | TA665572 | Pointer Sheet | AA-5522 | 1 | | | | | |
| 13-106 | SP652364 | Wall Plate A (Left) | AA-5458 | 1 | | | | | |
| 13-107 | SP652375 | Wall Plate B (Right) | AA-5458 | 1 | | | | | |
| 13-108 | TA652320 | Illumination Plate | AA-5444 | 1 | | | | | |
| 13-109x | EF658170 | Fuse 8A 250V | 39-1-50 | 1 | | | | | |
| 13-110x | EF575234 | Fuse 6A 250V (1070) | 39-1-50 | 1 | | | | | |
| 13-111x | EF668507 | Fuse 3AG 125V 7A (CSA) | 39-1-57 | 1 | | | | | |
| 13-112x | EF459843 | Fuse ST-2 5A (1070) (CSA) | 39-1-26 | 1 | | | | | |
| 13-113x | EF277402 | Fuse ST-2 1A (CSA) | 39-1-26 | 1 | | | | | |
| 13-114x | EF277413 | Fuse ST-2 2A (1070) (CSA) | 39-1-26 | 1 | | | | | |
| 13-115x | EF424811 | Fuse ST-2 2.5A (CSA) | 39-1-26 | 1 | | | | | |

When ordering parts, Please describe Parts Number, Serial Number, and Model Number in detail.

13. ASSEMBLY BLOCK



14. FINAL ASSEMBLY BLOCK



14) FINAL ASSEMBLY BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|-----------------------|-----------|---|---------------|------|
| 14-1x | BZ657562 | Front Panel Block Comp. | | 1 |
| 14-2x | BZ657573 | Front Panel Block Comp (1080DB) | | 1 |
| 14-3x | BZ657551 | Front Panel Block Comp. (1070) | | 1 |
| 14-4x | SP656414 | Front Panel A (1080DB) | AA-5463 | 1 |
| 14-5 | SP656425 | Front Panel B | AA-5465 | 1 |
| 14-6x | SP656436 | Front Panel C (1070) | AA-5467 | 1 |
| 14-7 | SZ652285 | Front Glass | AA-5445 | 1 |
| 14-8x | ZG652713 | Glass Retaining Spring | AA-5456 | 2 |
| 14-9x | SE653433 | Escutcheon 1 | TE-6313 | 1 |
| 14-10x | SE653444 | Escutcheon 2 | TE-6313 | 1 |
| 14-11x | SE653455 | Escutcheon 3 (1070, 1080DB) | TE-6313 | 1 |
| 14-12x | SE631585 | Button Escutcheon D | CG-6814 | 1 |
| ASSEMBLY BLOCK | | | | |
| 14-13x | SP652331 | Bottom Plate | AA-5439 | 1 |
| 14-14x | SP676607 | Bottom Plate B (CEE) (CSA) | AA-5439 | 1 |
| 14-15x | SZ651958 | Fuse Cover | AA-5438 | 1 |
| 14-16x | SA545005 | Amp. Foot | 98-5051 | 4 |
| 14-17x | ZS463375 | Tapping Screw #2 4x15 (Truss) | | 4 |
| 14-18 | BC652634 | Cabinet | AA-5440 | 1 |
| 14-19x | SE655108 | Cabinet Rear Net | AA-5503 | 1 |
| 14-20x | ZW548010 | Spot Facing Washer | MU-6028 | 4 |
| 14-21x | ZS558050 | Screw, binding head 4x14 | | 4 |
| 14-22 | SK652386 | Slide Knob | AA-5478 | 1 |
| 14-23 | SK665223 | Memory Cap A | AA-5521 | 1 |
| 14-24 | SK647967 | Tuning Knob (Large) | AA-5332 | 1 |
| 14-25x | ZS344463 | Set Screw, hexagon socket 4x6 | | 1 |
| 14-26 | SB679860 | Push Button (Square) | TE-6320 | 6 |
| 14-27 | SK646817 | Single Knob | AA-5250 | 3 |
| 14-28 | SK644670 | Double Knob (Upper) | AA-5355 | 2 |
| 14-29 | SK645208 | Double Knob (Lower) | AA-5353 | 2 |
| 14-30 | SK646830 | Selector Knob | AA-5253 | 4 |
| 14-31x | ZS344531 | Set Screw, hexagon socket 4x5 | | 4 |
| 14-32 | SK647548 | Single Knob (Small) | CJ-6031 | 2 |
| 14-33x | SK677057 | 4 Ch Small Double Knob (Upper) (1080DB) | AA-5548 | 4 |
| 14-34x | SK677046 | 4 Ch Small Double Knob (Lower) (1080DB) | AA-5549 | 4 |

When ordering parts, Please describe Parts Number, Serial Number, and Model Number in detail.

15 LIST OF INTERCHANGEABLE SEMICONDUCTORS

As far as service in concerned, in case the original parts cannot be obtained, the interchangeable parts listed below can be substituted.

| Original Parts | | | Interchangeable Parts | |
|----------------------------|-----------|--|---|----------------------------------|
| Description | Parts No. | Utilizing P.C Board | Description | Parts No. |
| 2SA640-1 (P) (Q) | ET661836 | AA-5417 | 2SA564 (Q) (R) 2SA733 (Q) (R) | ET538154 ET538378 |
| 2SC1628 (O) (Y) | ET623035 | AA-5417 | 2SC1124 (1) (2) | ET551564 |
| 2SC1222 (E) (F) | ET459810 | AA-5401 AA-5404 AA-5406 AA-5405 | 2SC1000 (BL) (GR) 2SC1313 (G) (H) | ET622181 ET604124 |
| 2SC945L (P) (Q) | ET639437 | AA-5401 AA-5415 AA-5407 AA-5408 | 2SC1647 (R) (S) 2SC711 (G) 2SC536 (E) (F) | ET658181 ET399870 ET370607 |
| 2SA733 (P) (Q) | ET554657 | AA-5401 AA-5415 AA-5407 | 2SA628 (D) (E) 2SA564 (Q) (R) | ET538110 ET538154 |
| 2SA640 (F) | ET665842 | AA-5401 AA-5403 | 2SA628 (D) (E) 2SA733 (Q) (R) 2SA564 (Q) (R) | ET538110 ET538378 ET538154 |
| 2SD313 (E) (F) | ET452531 | AA-5415 | 2SD571 (L) (M) | ET655356 |
| 2SC1384 (P) (Q) | ET658067 | AA-5415 | 2SD400 (K) 2SC959 (L) (M) 2SC1211 (C) (D) | ET631877 ET452597 ET430907 |
| 2SC930 (E) (F) | ET618873 | AA-5307 | 2SC454 (B) (C) 2SC372 (Y) | ET591366 ET234808 |
| 2SC458LG (B) (C) | ET234843 | AA-5403 | 2SC1000 (Y) (GR) 2SC693U (F) 2SC1312S (G) (H) | ET654862 ET315472 ET603257 |
| 2SC1000 (BL) (GR) | ET622181 | AA-5403 | 2SC458LG (C) 2SC1222 (E) (F) | ET234854 ET459810 |
| 2SC945L (K) (P) (Q) (R) | ET635218 | AA-5507 AA-5412 | 2SC1647 (R) (S) 2SC536 (E) (F) 2SC711 (G) | ET658181 ET370607 ET399870 |
| 2SC1520-3 (L) (K) | ET656267 | AA-5417 | | |
| 2SB548 (P) (Q) | ET656910 | AA-5415 | | |
| S-60W | EI656256 | AA-5417 | | |
| S-40W | EI656245 | AA-5417 | | |
| CX-050 | EI656976 | AA-5401 | | |
| CX-049 | EI656965 | AA-5401 | | |
| CX-718 | EI656987 | AA-5401 | | |
| CD4-392 | EI656998 | AA-5401 | | |
| TA7129P | EI657000 | AA-5401 | | |
| LA-1230 | EI650586 | AA-5407 | | |
| LA3350A | EI650597 | AA-5407 | | |
| μPC-30C | EI650362 | AA-5407 | | |

| Original Parts | | | Interchangeable Parts | |
|---------------------------|-----------|----------------------|-----------------------|-----------|
| Description | Parts No. | Utilizing P.C Board. | Description | Parts No. |
| 1S2473VE | ED560913 | AA-5401 | 1S1588 | ED557447 |
| 1S2473F | ED657022 | AA-5415 | WG599 | ED514721 |
| 1S2472VE | ED656278 | AA-5407 | WG713 | ED515990 |
| 10D1 | ED224526 | AA-5415 | 1N4001 | ED538615 |
| 10D2 | ED224548 | AA-5410 AA-5415 | 1N4003 | ED570295 |
| 1S188AM | ED562386 | AA-5406 AA-5408 | 1N34A | ED417442 |
| 1T243M-47 | ED657011 | AA-5401 | | |
| WZ-120 | ED510772 | AA-5401 AA-5408 | | |
| WZ-162 | ED494627 | AA-5415 | | |
| WZ-130 | ED539976 | AA-5415 | | |
| SEL305GL | ED656346 | AA-5413 | | |
| SEL105R | ED656357 | AA-5413 | | |
| S5188 | ED656234 | AA-5410 | | |
| HIFI 400V 3A (SPECIAL) | ED558033 | AA-5410 | | |

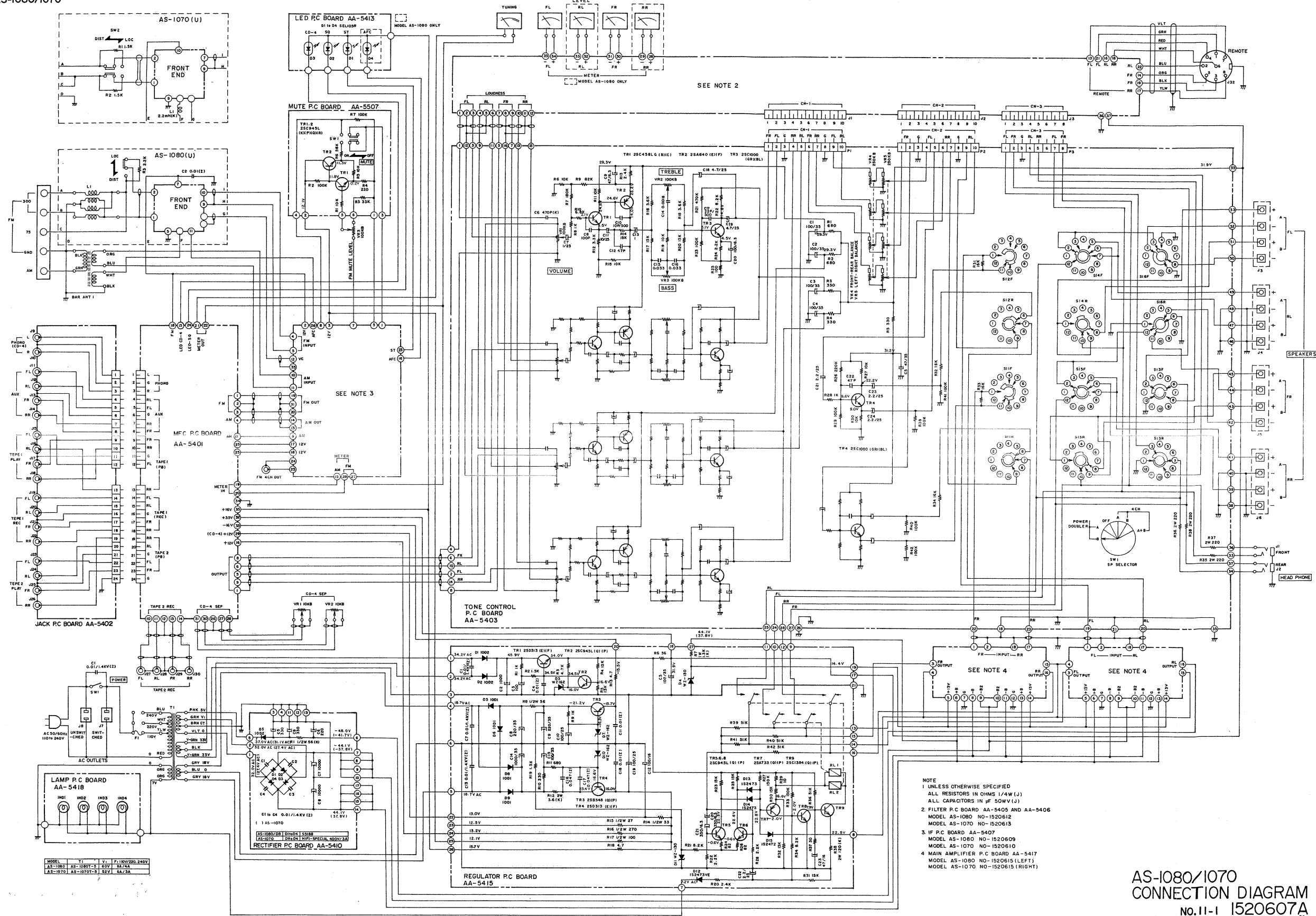
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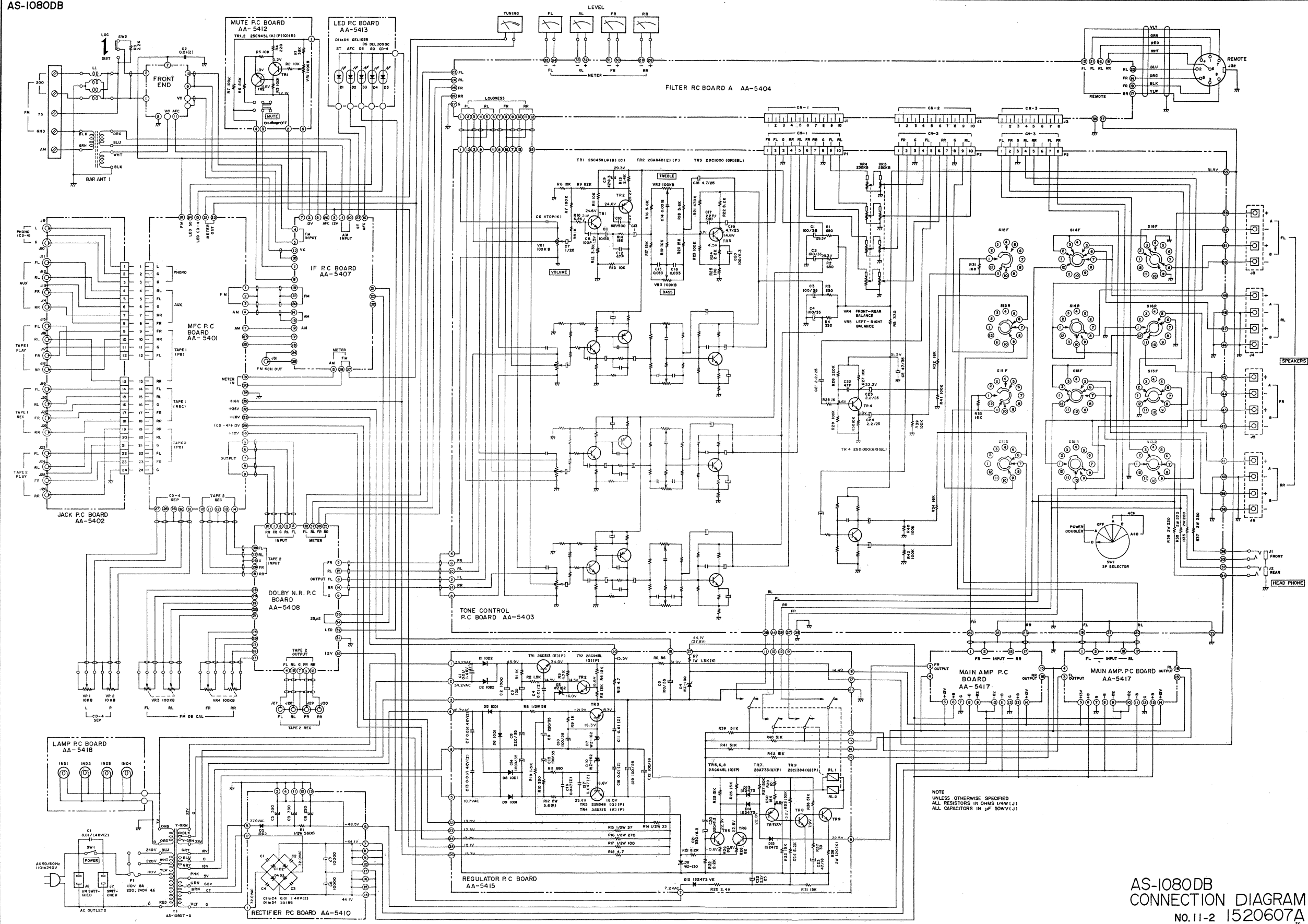
| Parts No. | Ref. No. & Symbol No. | Parts No. | Ref. No. & Symbol No. | Parts No. | Ref. No. & Symbol No. | Parts No. | Ref. No. & Symbol No. | Parts No. | Ref. No. & Symbol No. |
|-----------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|-----------------------|
| BA657617 | 10-3 | ED510772 | 3-D2 | ER658091 | 8-R38 | EZ655187 | 13-40 | ZS432674 | 13-85x |
| BA657628 | 10-1 | ED539820 | 13-79x | ER658124 | 5-R10 | EZ655198 | 13-69x | ZS432843 | 13-92x |
| BA657630 | 10-2 | ED539976 | 8-D4 | ER658124 | 6-R6 | EZ656458 | 13-27x | ZS447761 | 13-17x |
| BA657663 | 3-1 | ED539976 | 8-D11 | ES656335 | 13-44 | EZ663480 | 13-68x | ZS447761 | 13-39x |
| BA657674 | 4-3 | ED558033 | 9-D1to4 | ES656728 | 4-SW1 | EZ689545 | 13-70x | ZS447840 | 8-4 |
| BA657685 | 4-1 | ED560913 | 1-D1to6 | ES656730 | 4-SW1 | EZ691020 | 13-72x | ZS447840 | 13-54x |
| BA657696 | 4-2 | ED560913 | 1-D10 | ES656741 | 4-SW1 | EZ691064 | 13-73x | ZS455207 | 13-88x |
| BA657707 | 11-1 | ED560913 | 1-D13 | ES656820 | 11-SW1 | EZ692087 | 13-71x | ZS463353 | 13-45x |
| BA657720 | 12-1 | ED560913 | 7-D1 | ES656831 | 2-SW1 | MB650147 | 13-7x | ZS463375 | 14-17x |
| BA657731 | 2-2 | ED560913 | 8-D12to14 | ES657050 | 1-SW3 | MR530651 | 13-52x | ZS530673 | 13-53x |
| BA657742 | 2-1 | ED562386 | 3-D1 | ES657077 | 1-SW1 | MR530662 | 13-89x | ZS530684 | 13-90x |
| BA657753 | 7-3 | ED562386 | 4-D1,2 | ES657088 | 1-SW2 | MR656594 | 13-77 | ZS558050 | 14-21x |
| BA657764 | 7-1 | ED562386 | 4-D1to4 | ES658884 | 3-SW1 | MS652724 | 13-96 | ZS593201 | 13-66x |
| BA657775 | 7-2 | ED562386 | 4-D1to8 | ES664222 | 13-81 | MZ653411 | 13-86 | ZW270123 | 13-98x |
| BA657808 | 1-1 | ED560823 | 6-L1 | ES665807 | 13-82x | MZ665032 | 13-15 | ZW273756 | 13-21x |
| BA657810 | 1-4 | ED656234 | 9-D1to4 | ET234843 | 2-TR1 | MZ669150 | 13-30x | ZW273756 | 13-42x |
| BA657865 | 6-1 | ED656278 | 5-D1,2 | ET452531 | 8-TR1 | MZ669161 | 13-33x | ZW274026 | 13-62x |
| BA657876 | 5-1 | ED656278 | 6-D1,2 | ET452531 | 8-TR4 | MZ669172 | 13-31x | ZW379394 | 13-4x |
| BA670500 | 2-4 | ED656278 | 8-D15 | ET459810 | 1-TR1to4 | MZ669183 | 13-34x | ZW413278 | 13-63x |
| BA670511 | 2-3 | ED657011 | 1-D7to9 | ET459810 | 1-TR13 | MZ669194 | 13-32x | ZW462688 | 13-61x |
| BA670522 | 1-2 | ED657022 | 1-D11,12 | ET459810 | 1-TR21 | MZ669205 | 13-35x | ZW548010 | 14-20x |
| BA680758 | 8-1 | ED657022 | 1-D14to18 | ET459810 | 4-TR1 | SA545005 | 14-16x | ZW610492 | 13-100x |
| BA680760 | 9-2 | ED657033 | 1-V1to4 | ET460912 | 1-TR22 | SB679860 | 14-26 | ZW632226 | 8-2 |
| BA680771 | 9-1 | ED694091 | 10-D1 | ET554657 | 1-TR11 | SE631585 | 14-12x | ZW651082 | 13-24x |
| BA680815 | 1-3 | ED694091 | 10-D1to4 | ET554657 | 1-TR19 | SE653433 | 14-9x | | |
| BC652634 | 14-18 | ED694091 | 10-D3,4 | ET554657 | 8-TR7 | SE653444 | 14-10x | | |
| BF671038 | 13-99 | EF277402 | 13-113x | ET557965 | 7-TR9 | SE653455 | 14-11x | | |
| BT444137 | 13-43 | EF277413 | 13-114x | ET618873 | 7-TR2,3 | SE655108 | 14-19x | | |
| BT656550 | 13-56x | EF424811 | 13-115x | ET622181 | 2-TR3,4 | SK644670 | 14-28 | | |
| BT663478 | 13-58x | EF459843 | 13-112x | ET623035 | 5-TR3,4 | SK645208 | 14-29 | | |
| BT668248 | 13-55 | EF575234 | 13-110x | ET623035 | 6-TR3 | SK646817 | 14-27 | | |
| BT669216 | 13-57x | EF601964 | 13-117x | ET635218 | 11-TR1,2 | SK646830 | 14-30 | | |
| BT674526 | 13-60x | EF601942 | 13-121x | ET635218 | 12-TR1,2 | SK647548 | 14-32 | | |
| BT691018 | 13-59x | EF602550 | 13-116x | ET639437 | 1-TR5to10 | SK647967 | 14-24 | | |
| BZ657551 | 14-3x | EF623103 | 13-120x | ET639437 | 1-TR12 | SK652386 | 14-22 | | |
| BZ657562 | 14-1x | EF658170 | 13-109x | ET639437 | 1-TR15to18 | SK652397 | 13-23 | | |
| BZ657573 | 14-2x | EF668097 | 13-111x | ET639437 | 1-TR20 | SK665223 | 14-23 | | |
| EA652454 | 13-5 | EF690996 | 13-118x | ET639437 | 1-TR23to25 | SK677046 | 14-34x | | |
| EA652476 | 13-8 | EF691007 | 13-119x | ET639437 | 3-TR1 | SK677057 | 14-33x | | |
| EA652803 | 13-12x | EI605013 | 3-IC1 | ET639437 | 7-TR1 | SP652331 | 14-13x | | |
| EA668755 | 13-80x | EI650362 | 7-IC3 | ET639437 | 7-TR4to8 | SP652364 | 13-106 | | |
| EC516756 | 1-C140 | EI650586 | 7-IC1 | ET639437 | 7-TR8 | SP652375 | 13-107 | | |
| EC516767 | 3-C22 | EI650597 | 7-IC2 | ET639437 | 8-TR2 | SP656381 | 13-47x | | |
| EC522167 | 1-C102 | EI656245 | 13-2x | ET639437 | 8-TR5,6 | SP656392 | 13-48 | | |
| EC522167 | 1-C169 | EI656256 | 13-3 | ET639437 | 8-TR8 | SP656403 | 13-49x | | |
| EC522167 | 7-C23 | EI656958 | 1-IC7 | ET655615 | 2-TR2 | SP656414 | 14-4x | | |
| EC522516 | 7-C29,30 | EI656958 | 1-IC4 | ET656267 | 5-TR5 | SP656425 | 14-5 | | |
| EC523282 | 1-C85 | EI656965 | 1-IC2 | ET656267 | 6-TR4 | SP656436 | 14-6x | | |
| EC523282 | 1-C155 | EI656976 | 1-IC1 | ET656910 | 8-TR3 | SP656447 | 13-9 | | |
| EC523282 | 3-C4 | EI656987 | 1-IC3 | ET658067 | 8-TR9 | SP665998 | 13-10x | | |
| EC523282 | 3-C10 | EI657000 | 1-IC5,6 | ET658102 | 3-TR2 | SP676607 | 14-14x | | |
| EC523282 | 7-C11 | EJ354936 | 13-16 | ET661836 | 5-TR1,2 | SZ651958 | 14-15x | | |
| EC523282 | 7-C43 | EJ650261 | 13-22 | ET661836 | 6-TR1,2 | SZ652285 | 14-7 | | |
| EC551160 | 13-83x | EJ655683 | 13-19 | ET665842 | 1-TR14 | TA530910 | 13-38 | | |
| EC551160 | 13-84x | EJ656280 | 13-11 | EV484863 | 4-VR1to4 | TA562735 | 13-76x | | |
| EC604440 | 1-C103 | EJ656291 | 13-13x | EV484863 | 7-VR1 | TA646773 | 13-97x | | |
| EC604440 | 1-C170 | EJ656605 | 13-87 | EV465017 | 1-VR1,2 | TA646784 | 13-104x | | |
| EC604440 | 3-C9 | EJ656785 | 4-J1,2 | EV499364 | 5-VR2 | TA652320 | 13-108 | | |
| EC604440 | 7-C16 | EJ656796 | 4-J3 | EV499364 | 6-VR2 | TA652623 | 13-102 | | |
| EC604440 | 7-C27 | EJ656886 | 2-P1,2 | EV499364 | 7-VR2 | TA652678 | 10-4 | | |
| EC621257 | 7-C22 | EJ656897 | 2-P3 | EV520806 | 1-VR3to7 | TA652691 | 13-46x | | |
| EC650406 | 7-C33 | EL668362 | 13-6 | EV560136 | 3-VR2 | TA652757 | 13-103 | | |
| EC656561 | 13-64 | EM650226 | 13-51 | EV604438 | 3-VR3 | TA656313 | 13-36 | | |
| EC657055 | 1-C97 | EM650902 | 13-50 | EV604484 | 5-VR1 | TA656324 | 13-37x | | |
| EC657055 | 1-C164 | EO560610 | 7-L1 | EV604484 | 6-VR1 | TA656583 | 13-75 | | |
| EC657066 | 1-C106 | EO645838 | 7-T3 | EV656572 | 13-74x | TA665098 | 13-101x | | |
| EC657066 | 1-C174 | EO650373 | 7-T4 | EV656616 | 13-91 | TA665572 | 13-105x | | |
| EC658001 | 7-C33 | EO650384 | 7-T2 | EV656627 | 13-93 | TA674752 | 13-94x | | |
| EC662126 | 1-C101 | EO650395 | 7-T3 | EV656818 | 12-VR1 | TA676890 | 13-78 | | |
| EC662128 | 1-C168 | EO650608 | 7-T1 | EV656842 | 2-VR1 | TA695722 | 13-95x | | |
| EC666483 | 7-C21 | EO650823 | 5-L1 | EV656853 | 2-VR4,5 | ZG652713 | 14-8x | | |
| ED224526 | 8-D5,6 | EO656932 | 1-L3,4 | EV656864 | 2-VR2,3 | ZS325495 | 10-5 | | |
| ED224526 | 8-D8,9 | EO656943 | 1-L1,2 | EV656876 | 2-VR2,3 | ZS325495 | 13-65x | | |
| ED224548 | 8-D1,2 | EO656943 | 1-L5,6 | EV658895 | 3-VR1 | ZS344463 | 14-25x | | |
| ED224548 | 9-D5 | EO656954 | 1-L7,8 | EW374894 | 13-25 | ZS344531 | 14-31x | | |
| ED485370 | 3-TH1 | EP638763 | 8-RL1,2 | EW516600 | 13-26x | ZS366120 | 13-14x | | |
| ED494627 | 8-D3 | ER650430 | 7-FL1,2 | EZ652162 | 13-1 | ZS379350 | 8-3 | | |
| ED494627 | 8-D7 | ER650430 | 7-FL1to3 | EZ652410 | 13-67 | ZS393794 | 13-18x | | |
| ED494627 | 8-D10 | ER656908 | 7-FL4 | EZ654941 | 13-28 | ZS393794 | 13-20x | | |
| ED510772 | 1-D19 | ER656921 | 8-R12 | EZ654952 | 13-29x | ZS393794 | 13-41x | | |

SECTION 3

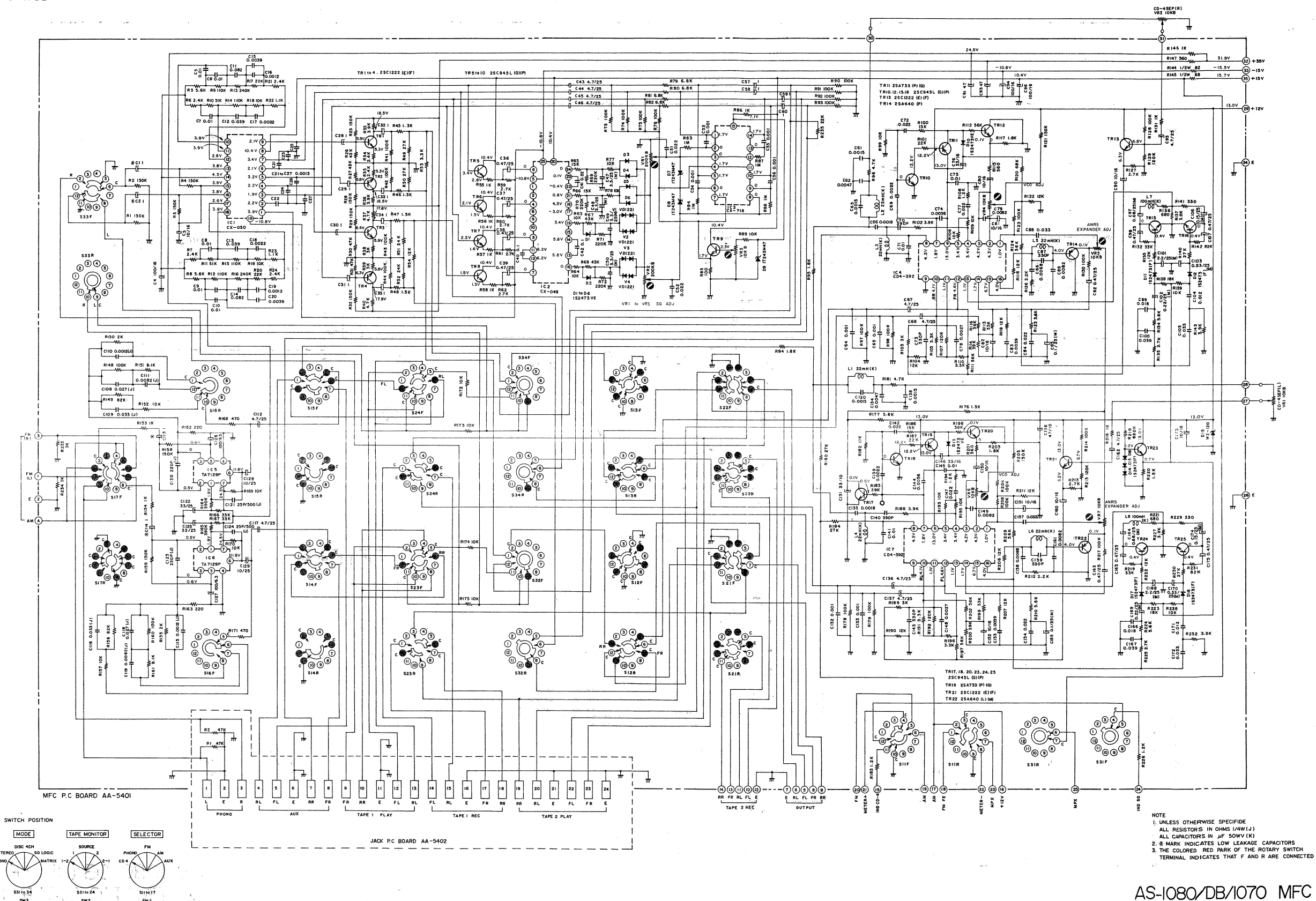
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| 2. | AS-1080DB | CONNECTION DIAGRAM | No. 11-2 | 1520607A |
| 3. | AS-1080/DB/ 1070 | MFC SCHEMATIC DIAGRAM | No. 11-3 | 1520608A |
| 4. | AS-1080/DB (U) | IF SCHEMATIC DIAGRAM | No. 11-4 | 1520609A |
| 5. | AS-1070 (U) | IF SCHEMATIC DIAGRAM | No. 11-5 | 1520610A |
| 6. | AS-1080 | FILTER SCHEMATIC DIAGRAM | No. 11-6 | 1520611A |
| 7. | AS-1080DB | FILTER SCHEMATIC DIAGRAM | No. 11-7 | 1520612A |
| 8. | AS-1070 | FILTER SCHEMATIC DIAGRAM | No. 11-8 | 1520613A |
| 9. | AS-1080DB | DOLBY N.R. SCHEMATIC DIAGRAM | No. 11-9 | 1520614A |
| 10. | AS-1080/DB/ 1070 | MAIN AMP SCHEMATIC DIAGRAM | No. 11-10 | 1520615A |
| 11. | AS-1080/DB/ 1070 | POWER TRANS SCHEMATIC DIAGRAM.. | No. 11-11 | 1520616A |



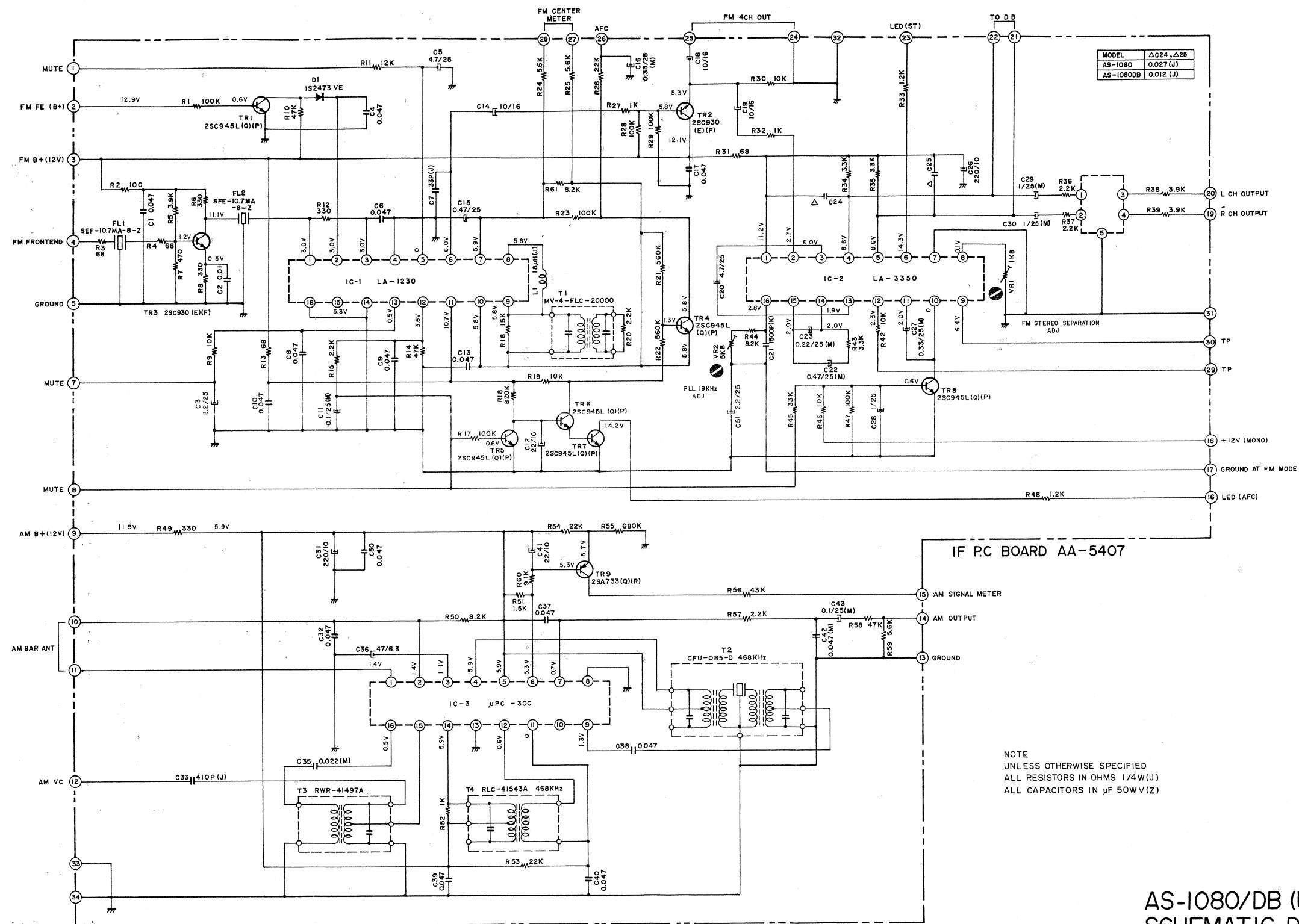


AS-1080DB
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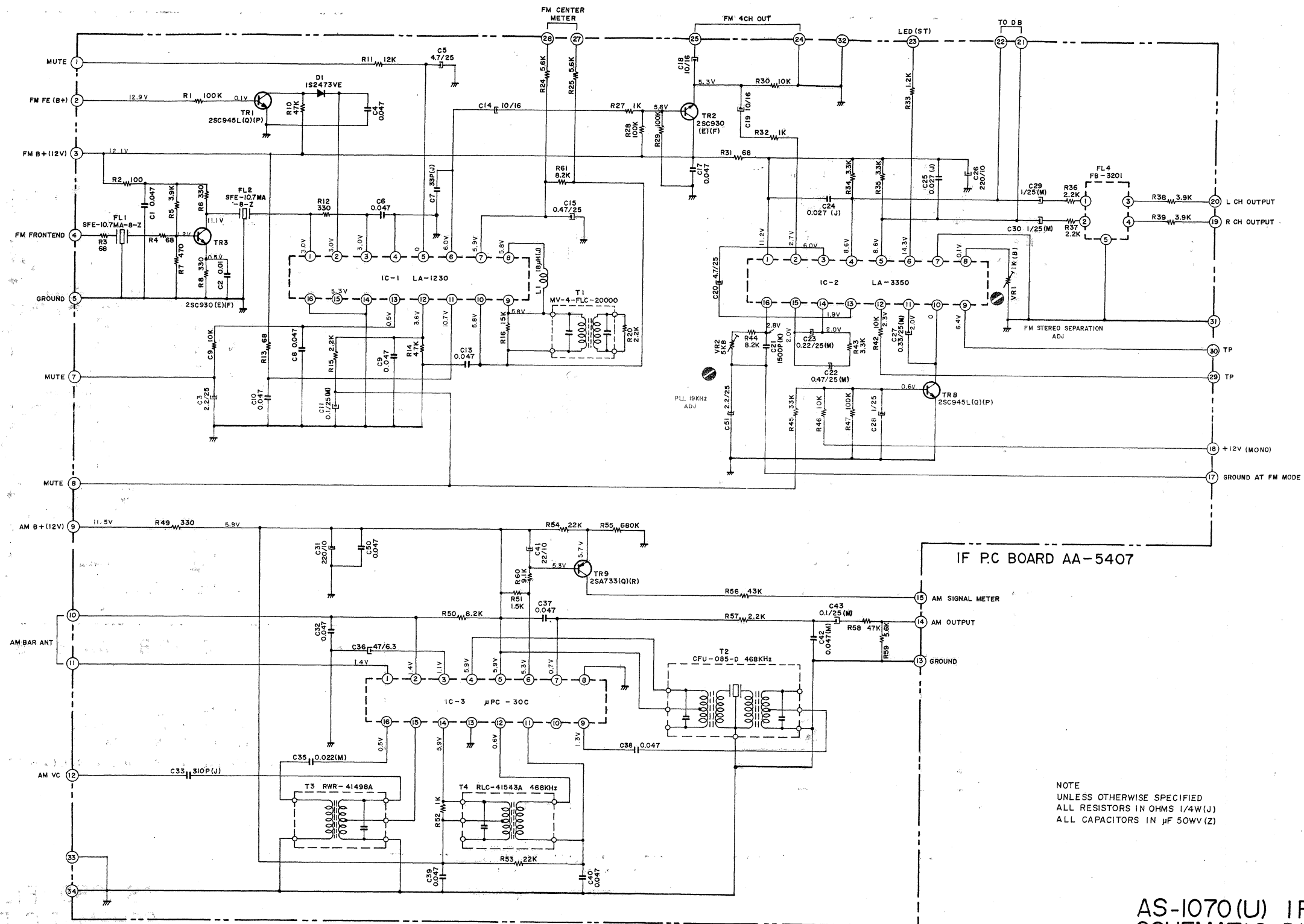
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SCHEMATIC DIAGRAM
No. 11-3 1520608A

AS-1080/DB (U)

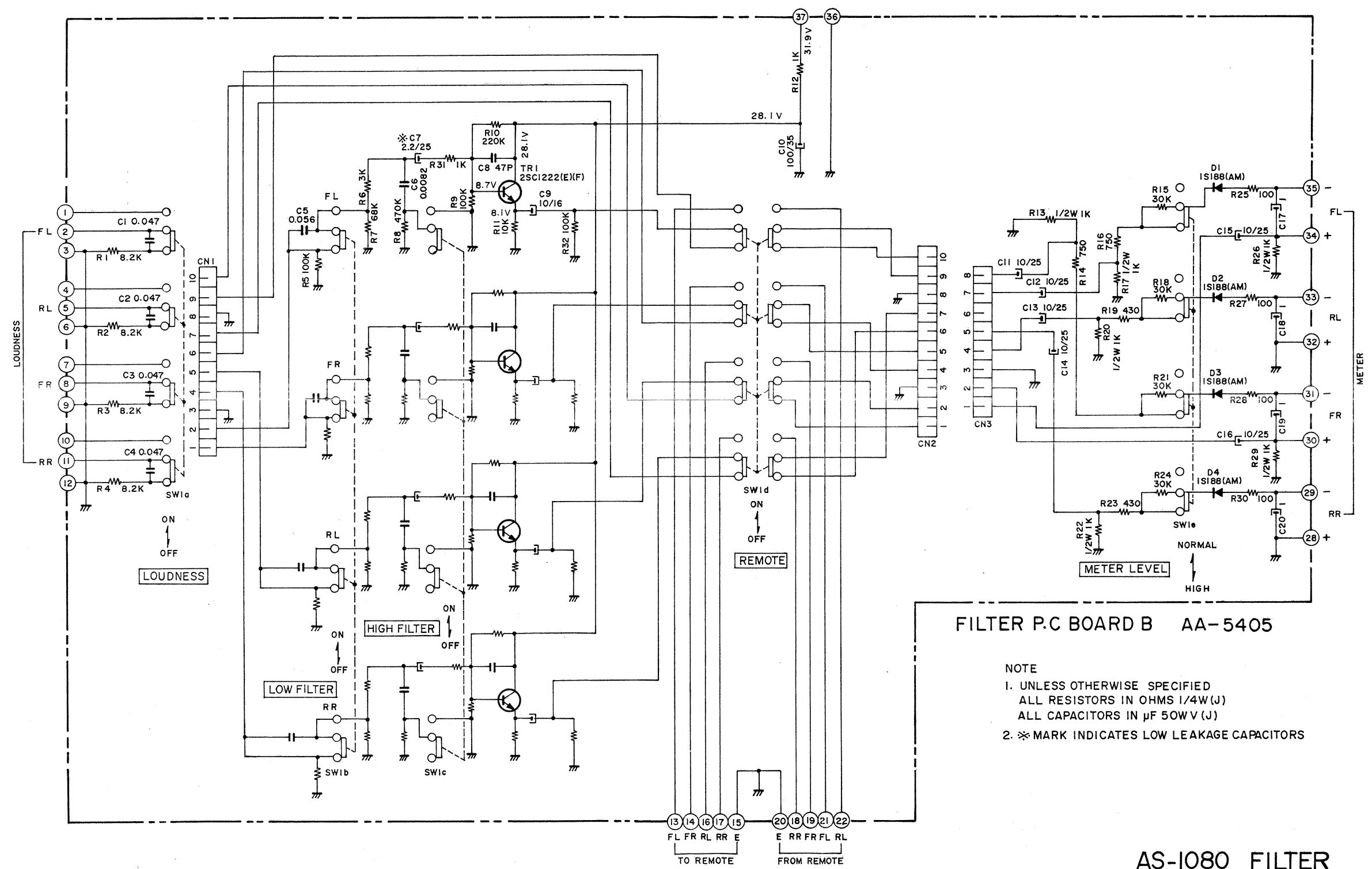


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2C

AS-1070(U)



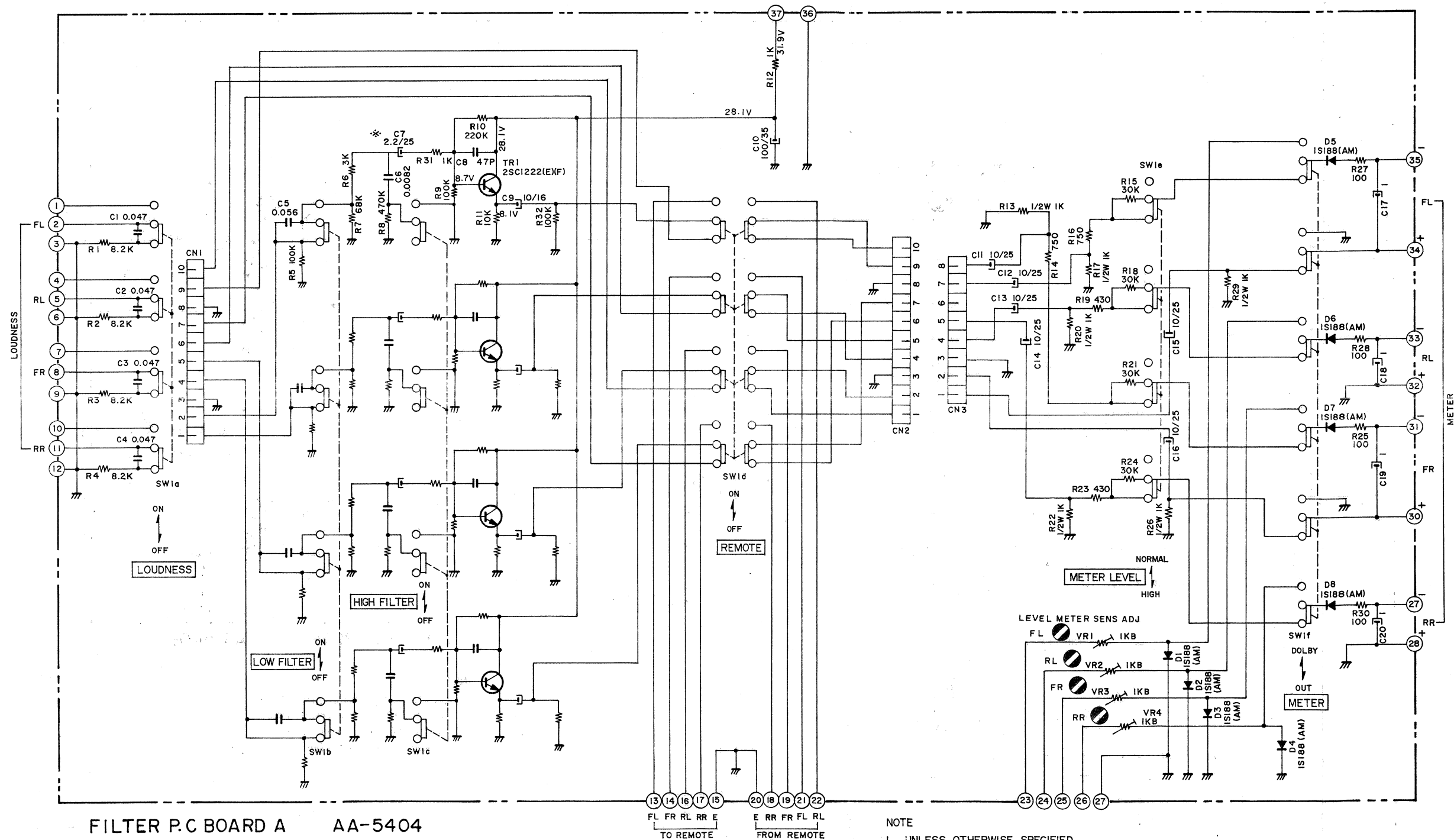
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FILTER P.C BOARD B AA-5405

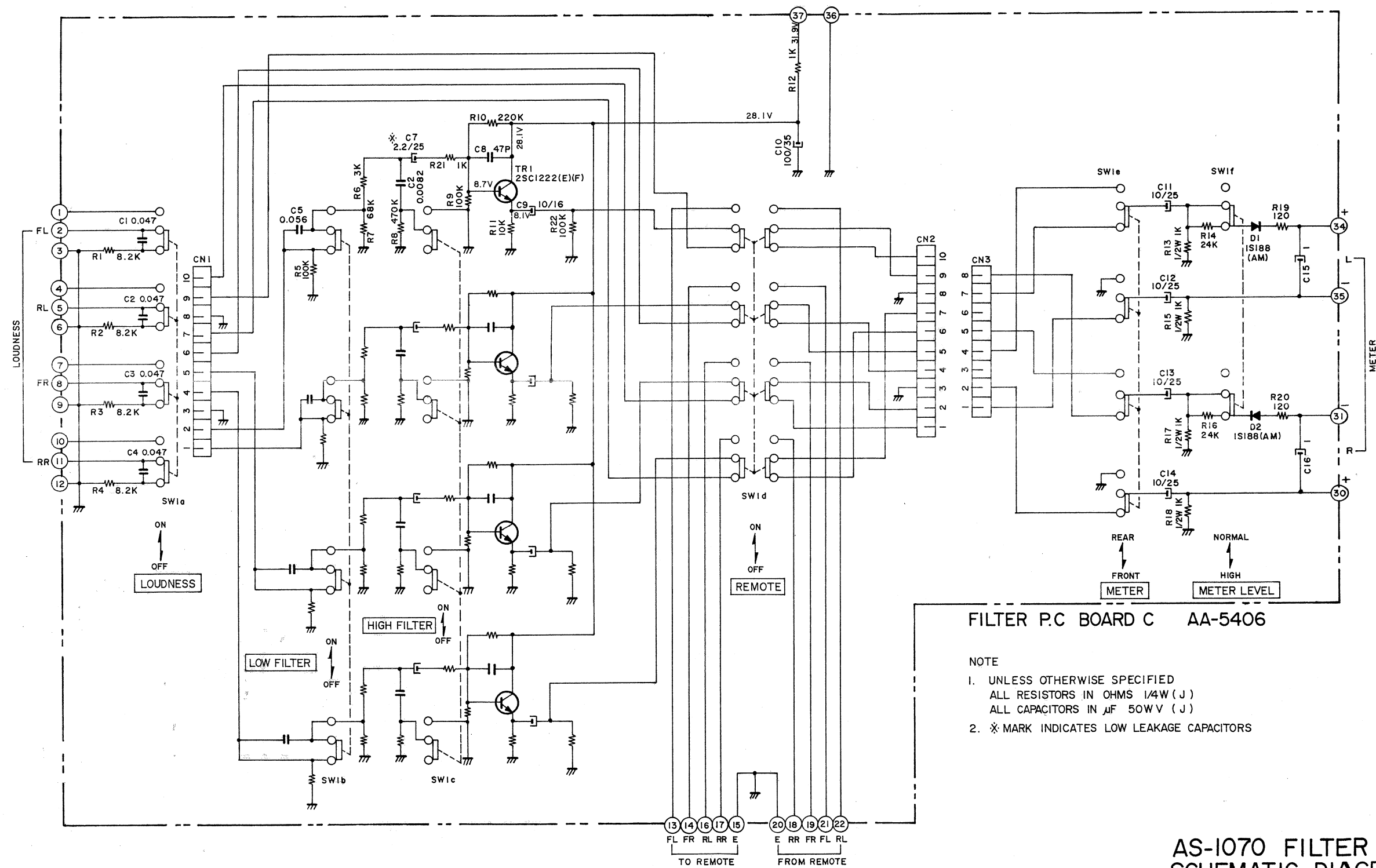
- NOTE
1. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μ F 50W V (J)
 2. * MARK INDICATES LOW LEAKAGE CAPACITORS

AS-1080 FILTER
SCHEMATIC DIAGRAM
NO.11-6 1520611A



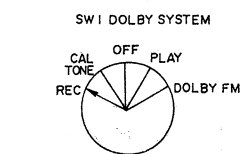
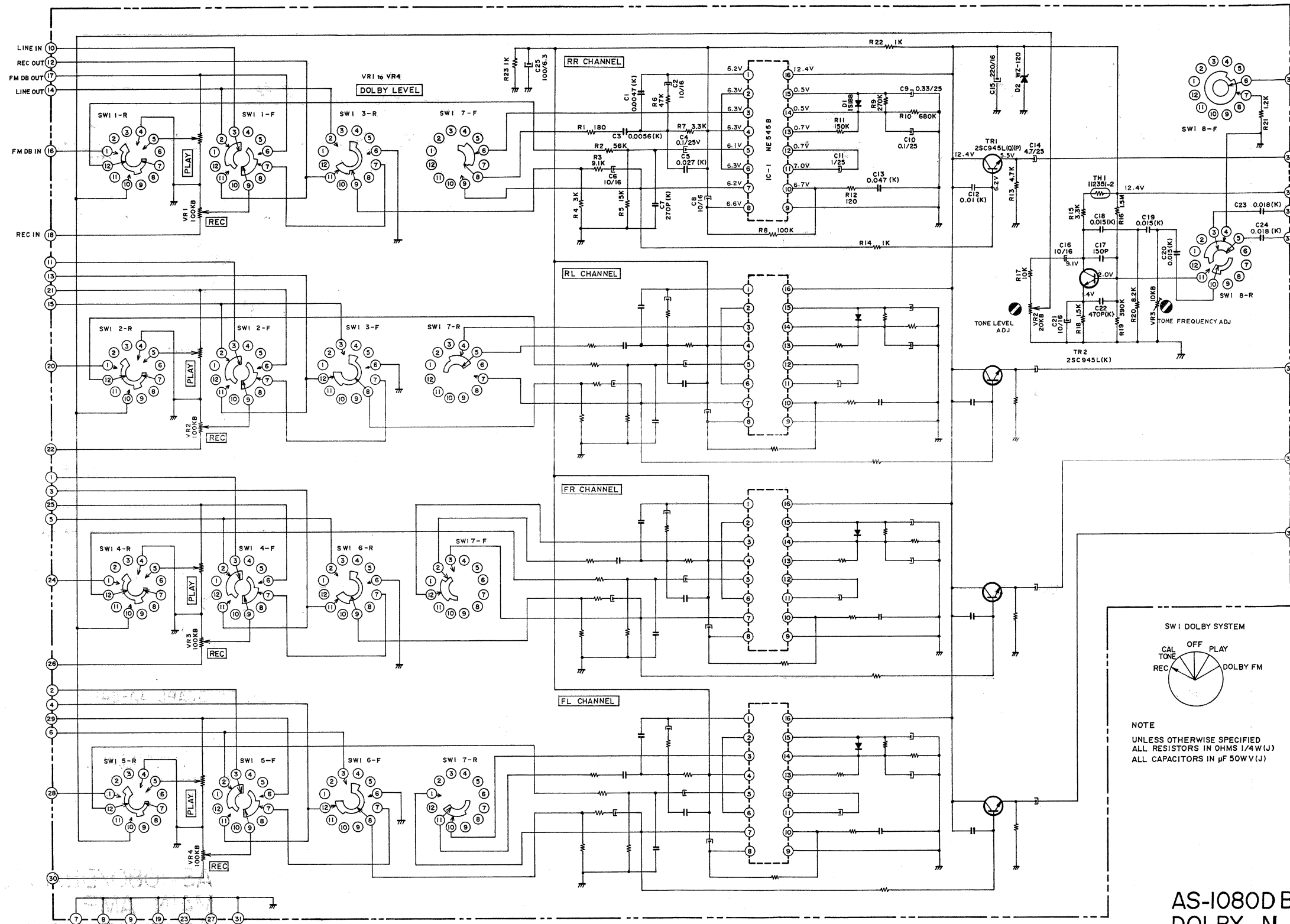
NOTE

1. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μ F 50WV(J)
2. ✕ MARK INDICATES LOW LEAKAGE
CAPACITORS



AS-1070 FILTER
SCHEMATIC DIAGRAM
No.11-8 1520613A

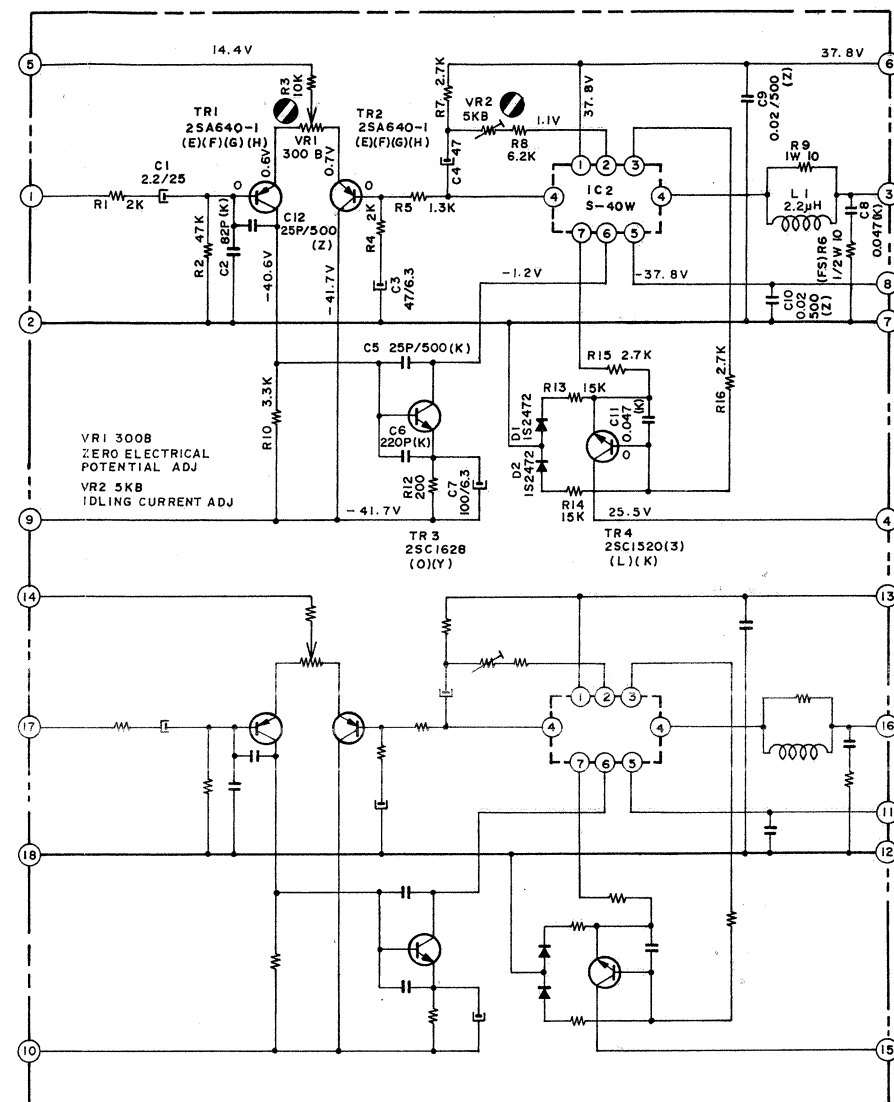
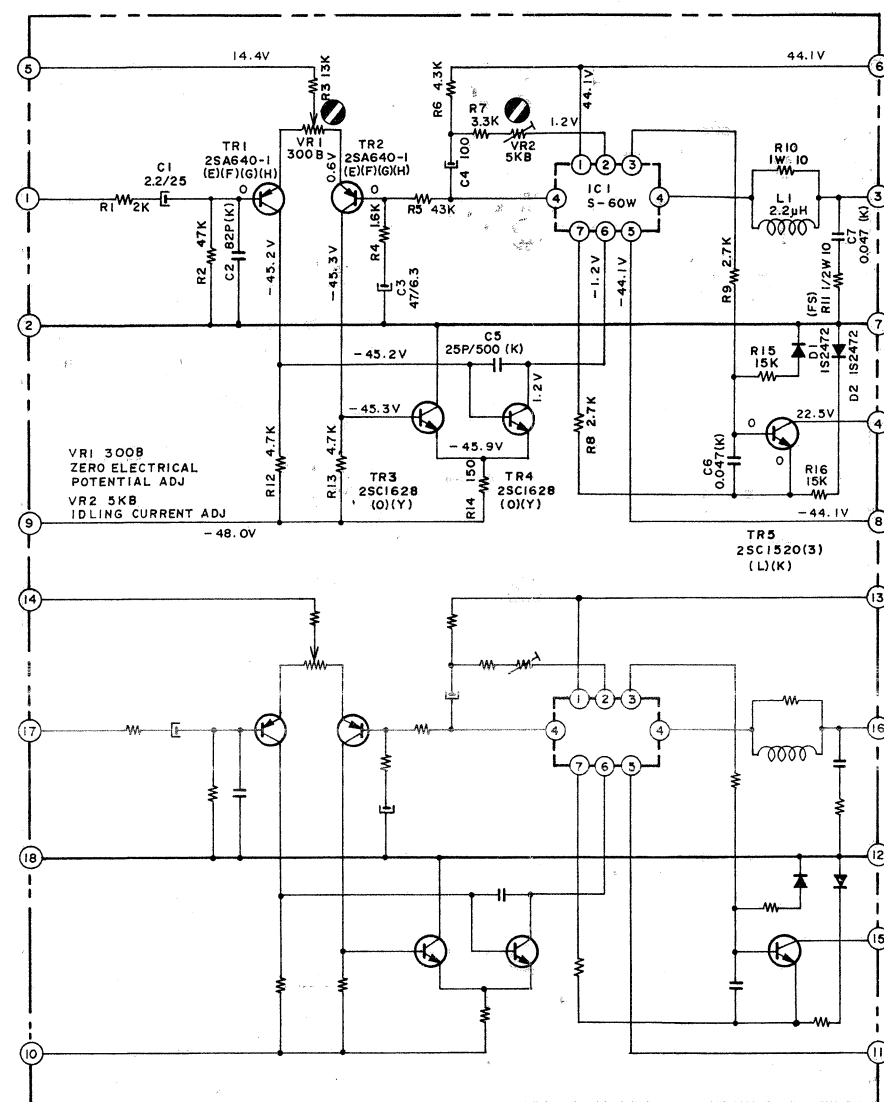
AS-1080DB



NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μ F 50W V (J)

DOLBY N.R. P.C. BOARD AA-5408

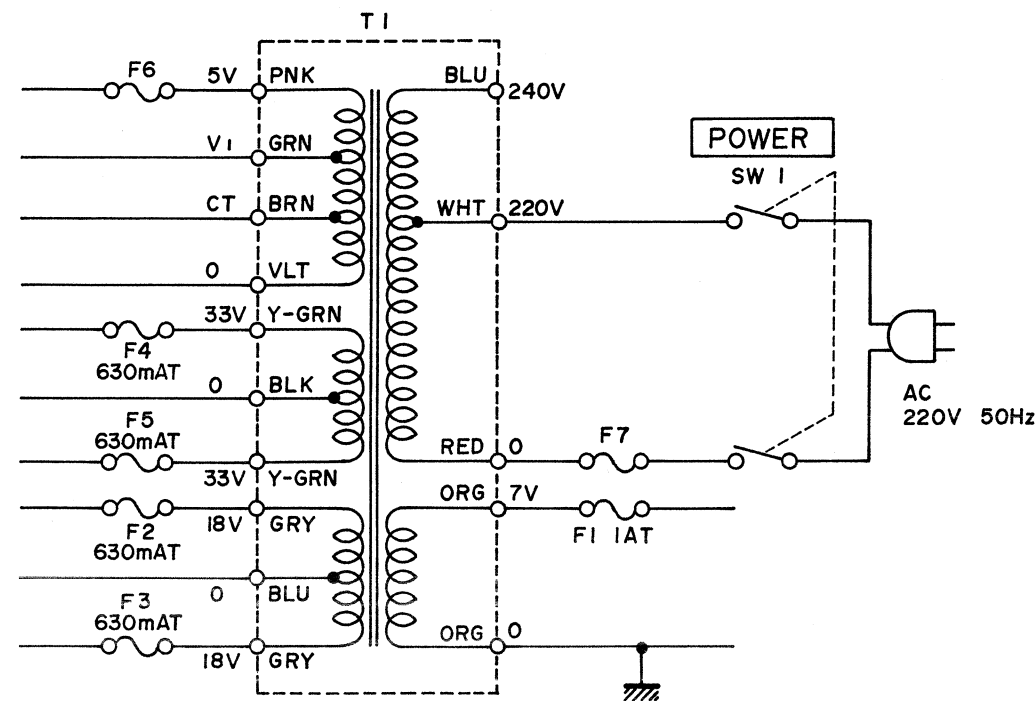
AS-1080DB
DOLBY N.R.
SCHEMATIC DIAGRAM
NO. 11-9 1520614A



NOTE
 1. UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS 1/4W(J)
 ALL CAPACITORS IN μ F 50WV(J)
 2. FS=FAIL SAFE RESISTOR

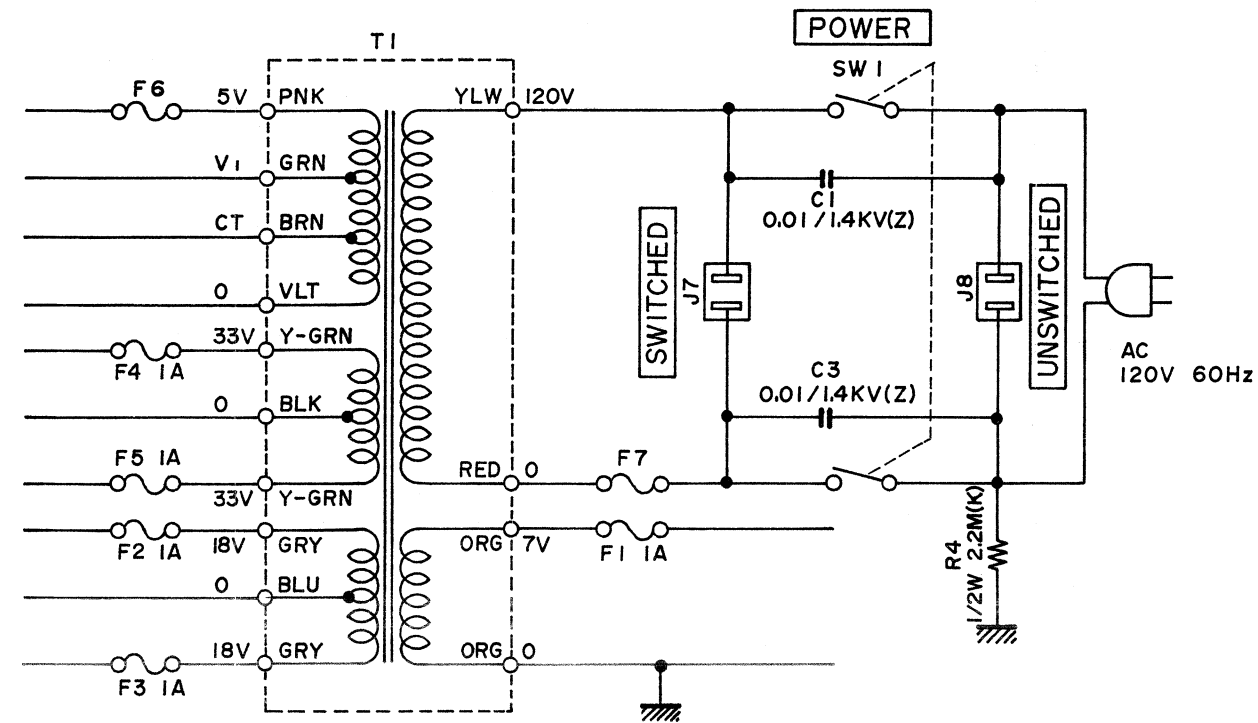
AS-1080/DB/1070
 MAIN AMP
 SCHEMATIC DIAGRAM
 NO.11-10 1520615A

AS-1080/DB/1070



CEE

| MODEL | T I | V _I | F6 | F7 |
|------------|------------|----------------|--------|--------|
| AS-1080/DB | AS-1080T-3 | 60V | 1.6AT | 4AT |
| AS-1070 | AS-1070T-3 | 52V | 1.25AT | 3.15AT |



CSA

| MODEL | T I | V _I | F6 | F7 |
|------------|------------|----------------|------|-----|
| AS-1080/DB | AS-1080T-2 | 60V | 2.5A | 7A |
| AS-1070 | AS-1070T-2 | 52V | 2 A | 5 A |

NOTE
POWER TRANSFORMER BLOCK IS
DIFFERENT ACCORDING AREA

AS-1080/DB/1070
POWER TRANS
SCHEMATIC DIAGRAM
No.11-11 1520616A